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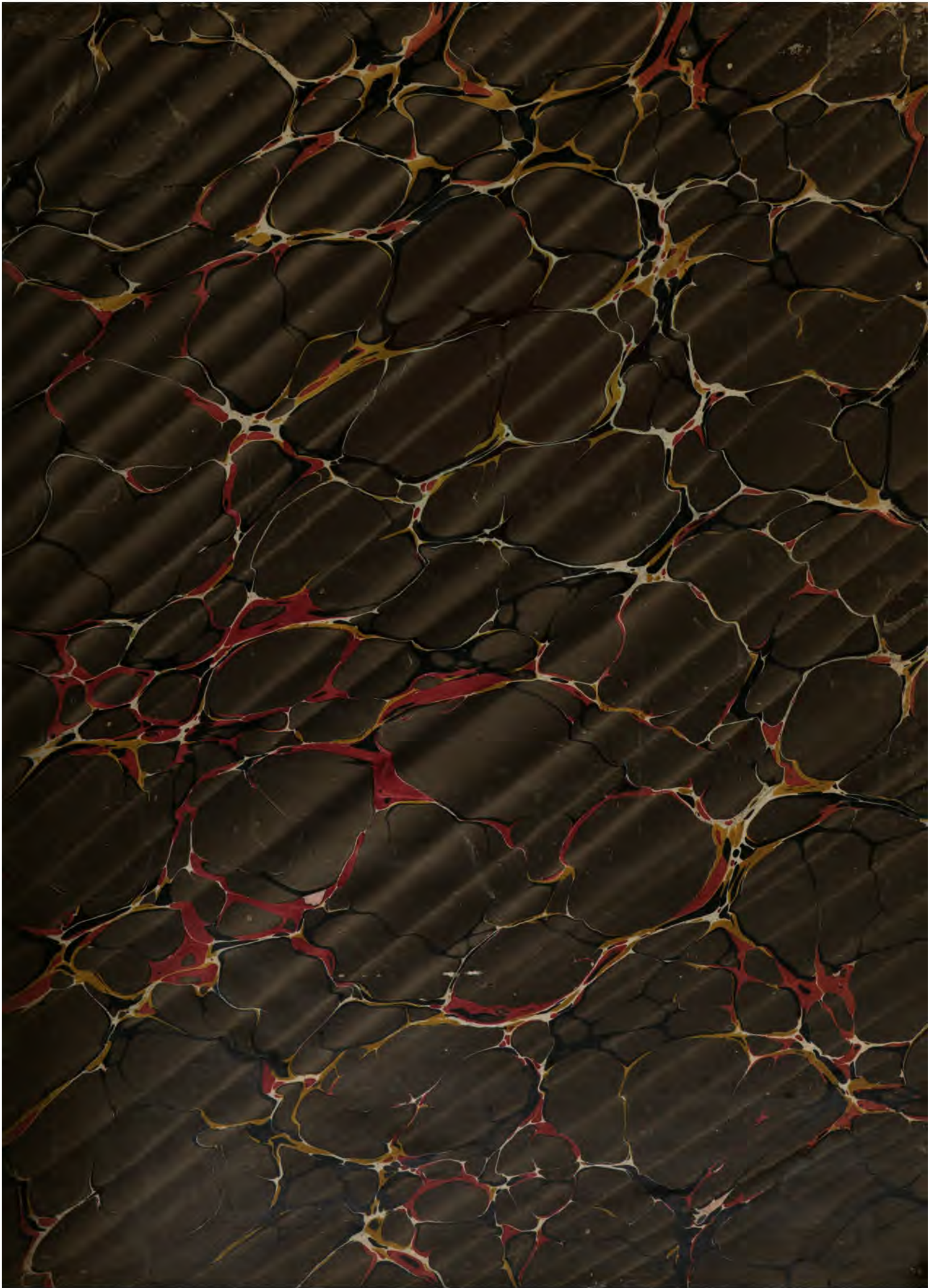
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COURS

DE

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6

COURS DE GÉOMÉTRIE DESCRIPTIVE.

PREMIÈRE PARTIE.

DU POINT, DE LA DROITE ET DU PLAN.

DEUXIÈME ÉDITION.

PAR M. THÉODORE OLIVIER,

Ancien élève de l'École polytechnique et ancien Officier d'artillerie; Docteur ès sciences de la Faculté de Paris;
Ancien professeur adjoint de l'École d'application de l'artillerie et du génie à Metz;
Ancien répétiteur à l'École polytechnique; Professeur de géométrie descriptive au Conservatoire des arts et métiers;
Professeur-fondateur de l'École centrale des arts et manufactures;
Membre honoraire de la Société philomathique de Paris et du comité des arts mécaniques de la Société d'encouragement pour l'industrie nationale;
Membre étranger des deux Académies royales des sciences et des sciences militaires de Stockholm;
Membre correspondant de la Société royale des sciences de Liège et de la Société d'agriculture et arts utiles de Lyon,
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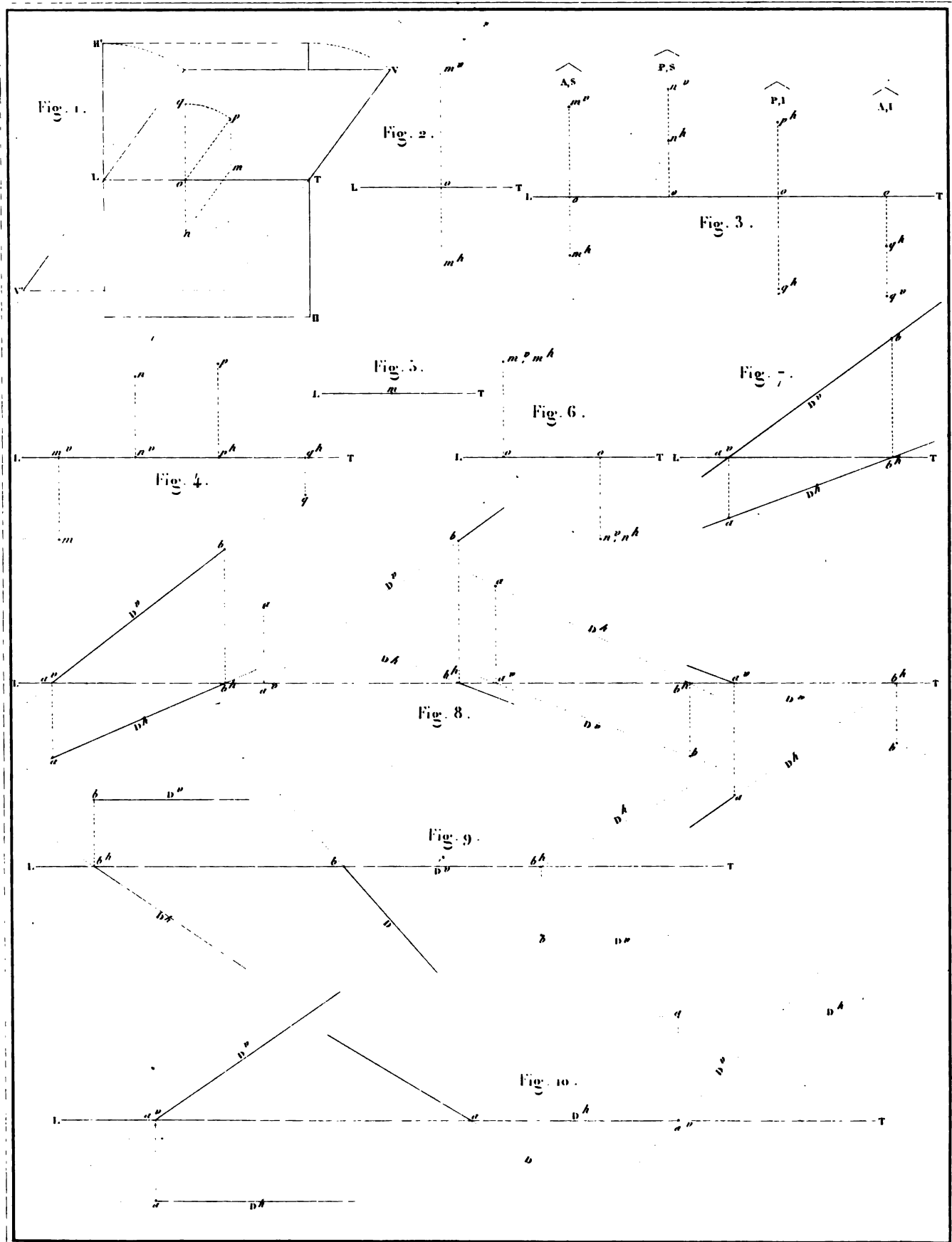
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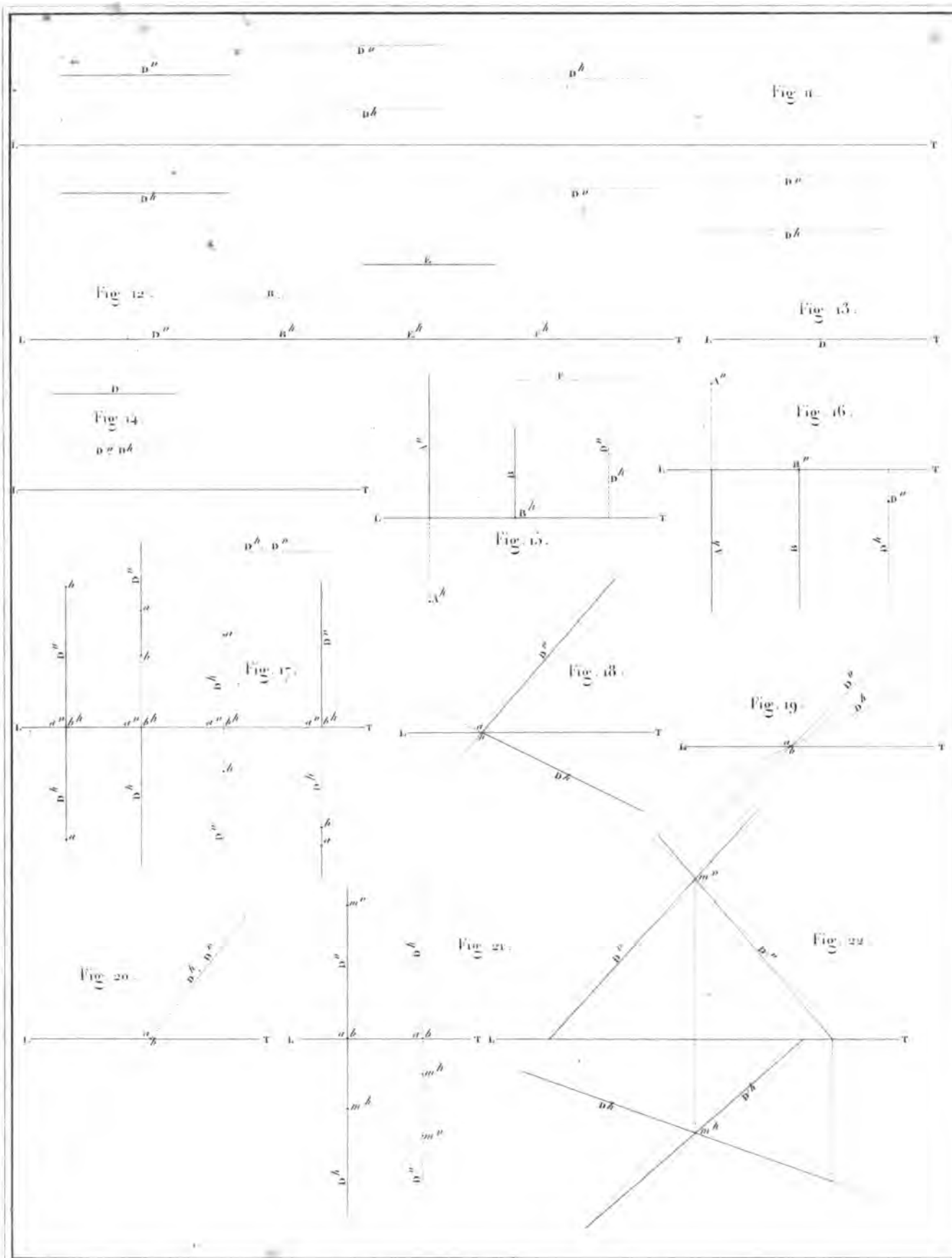
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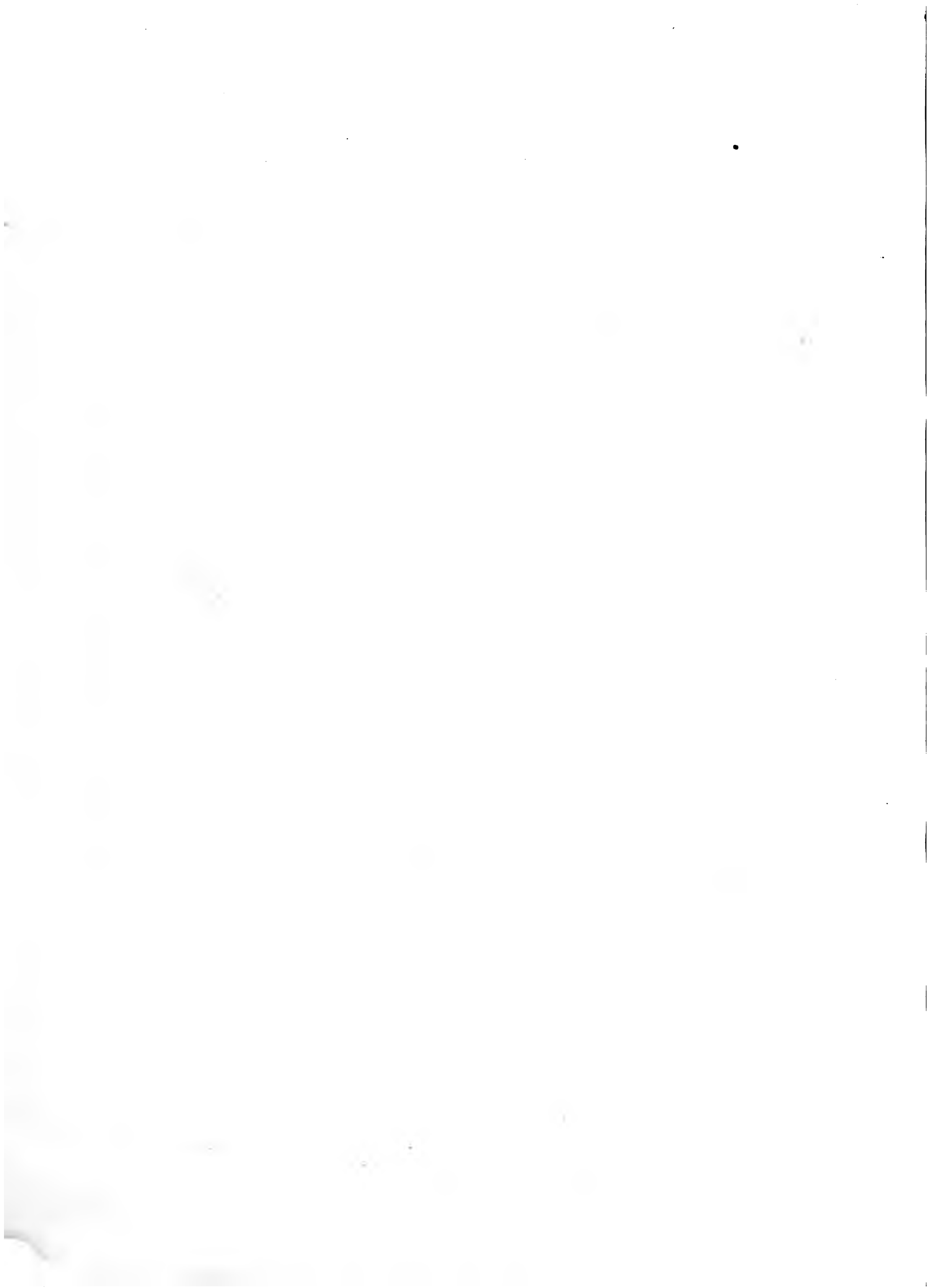
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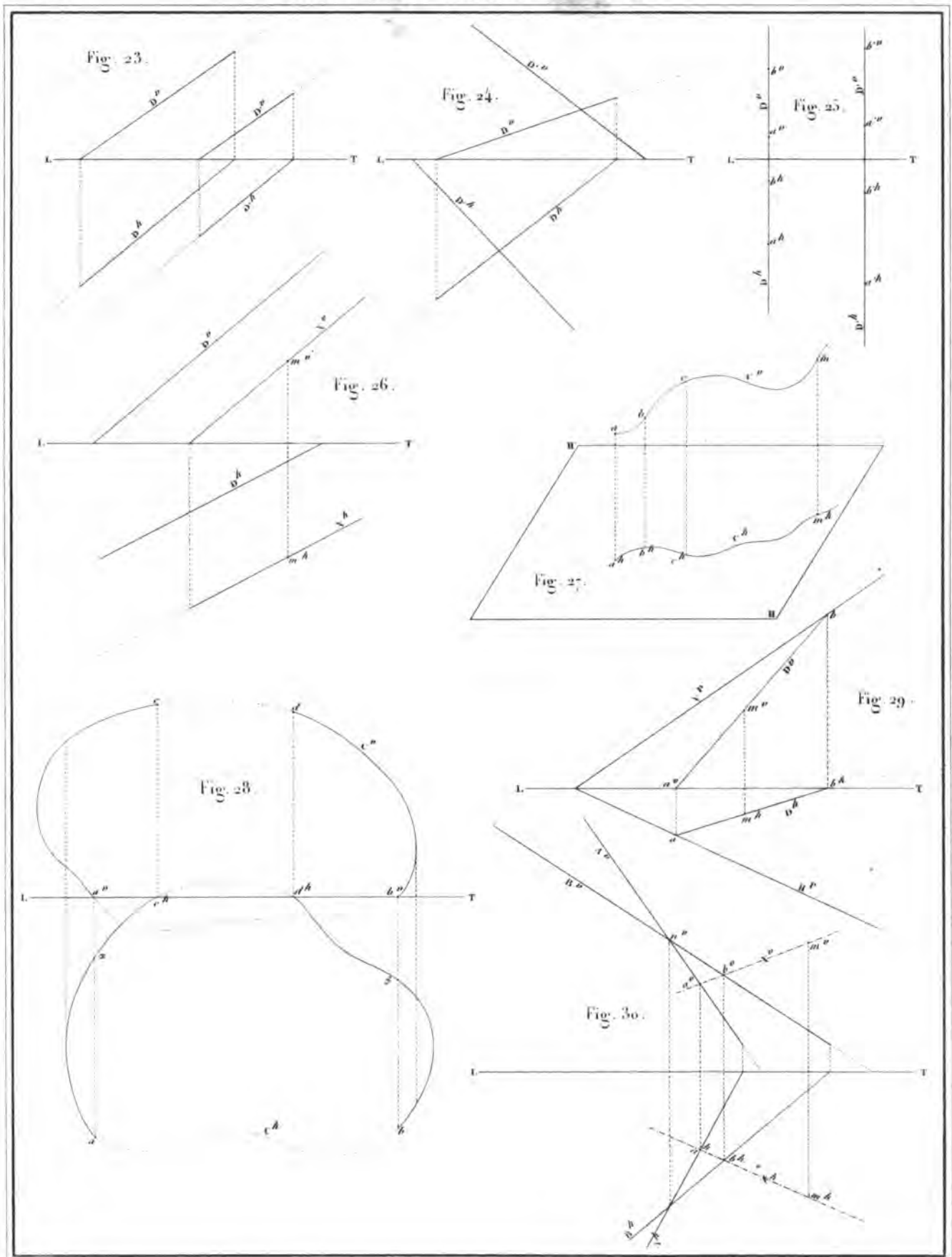
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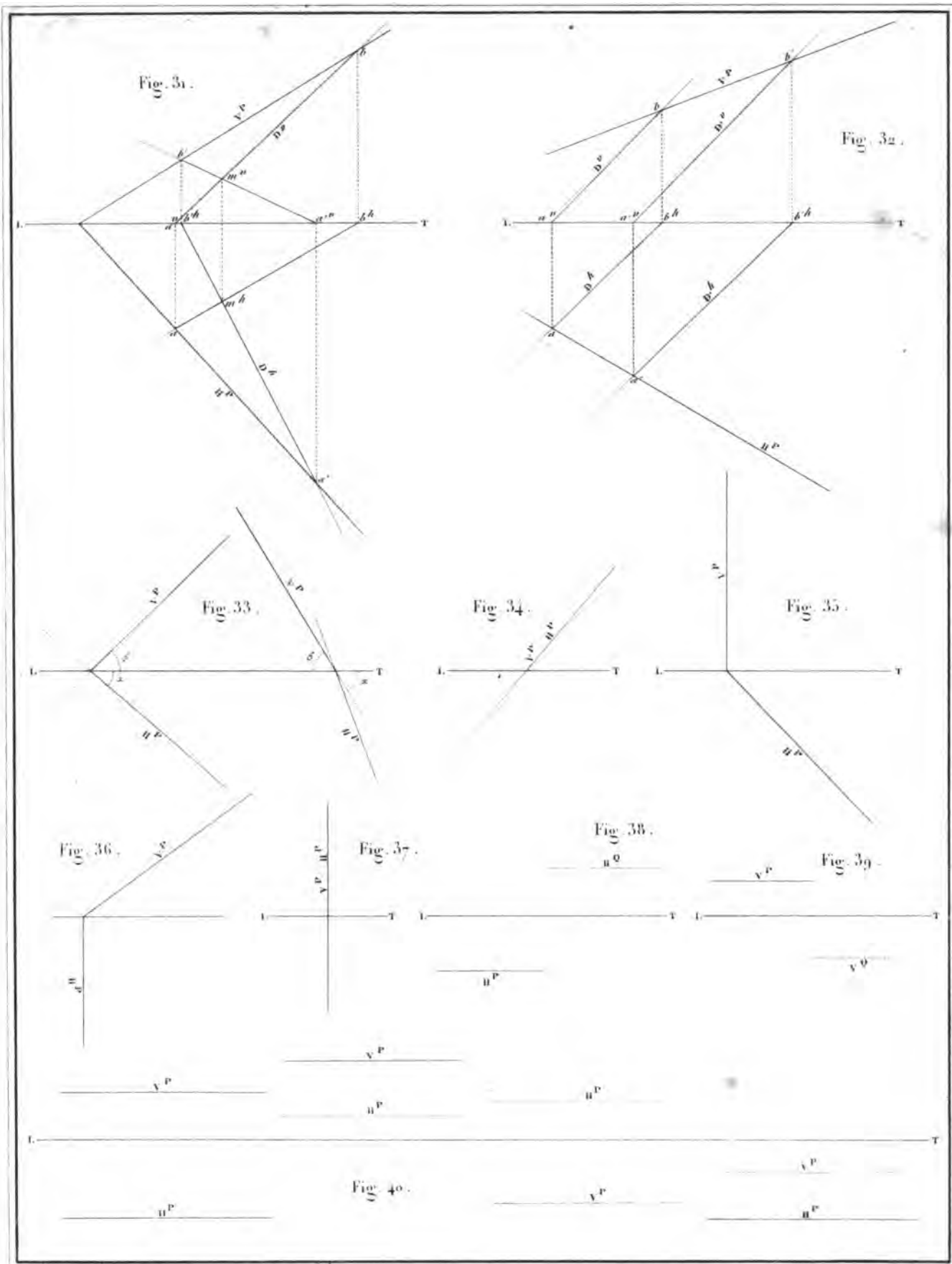


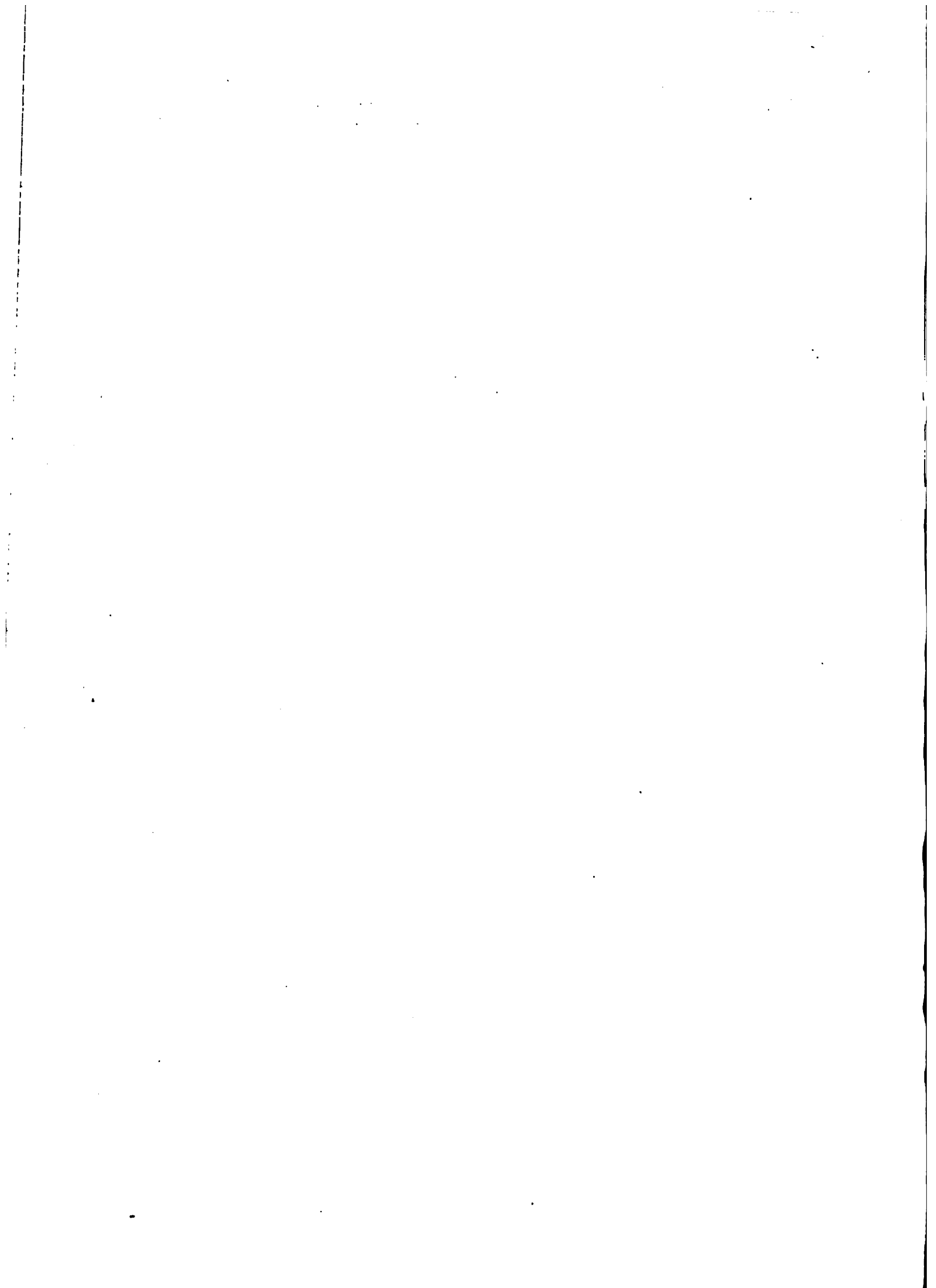


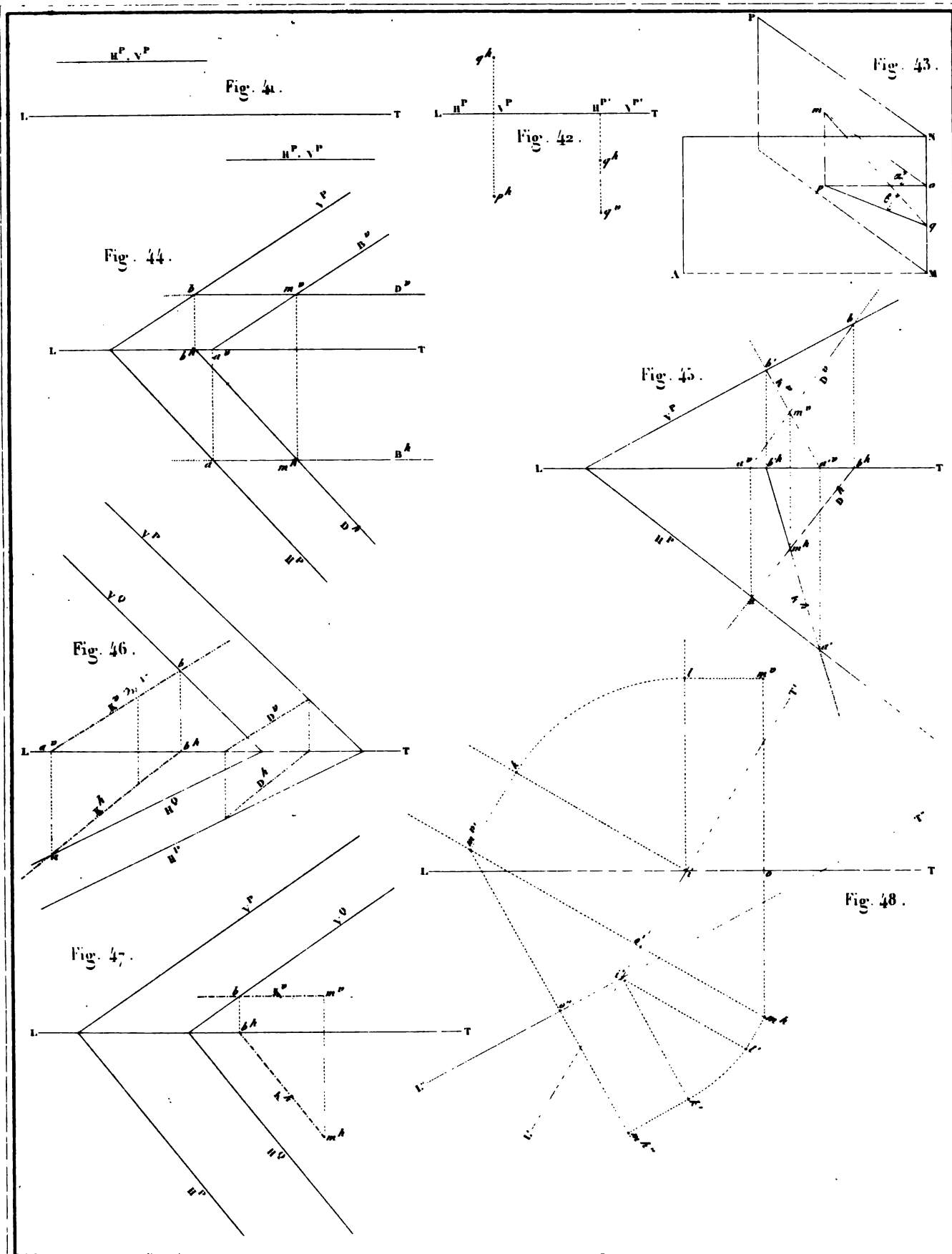




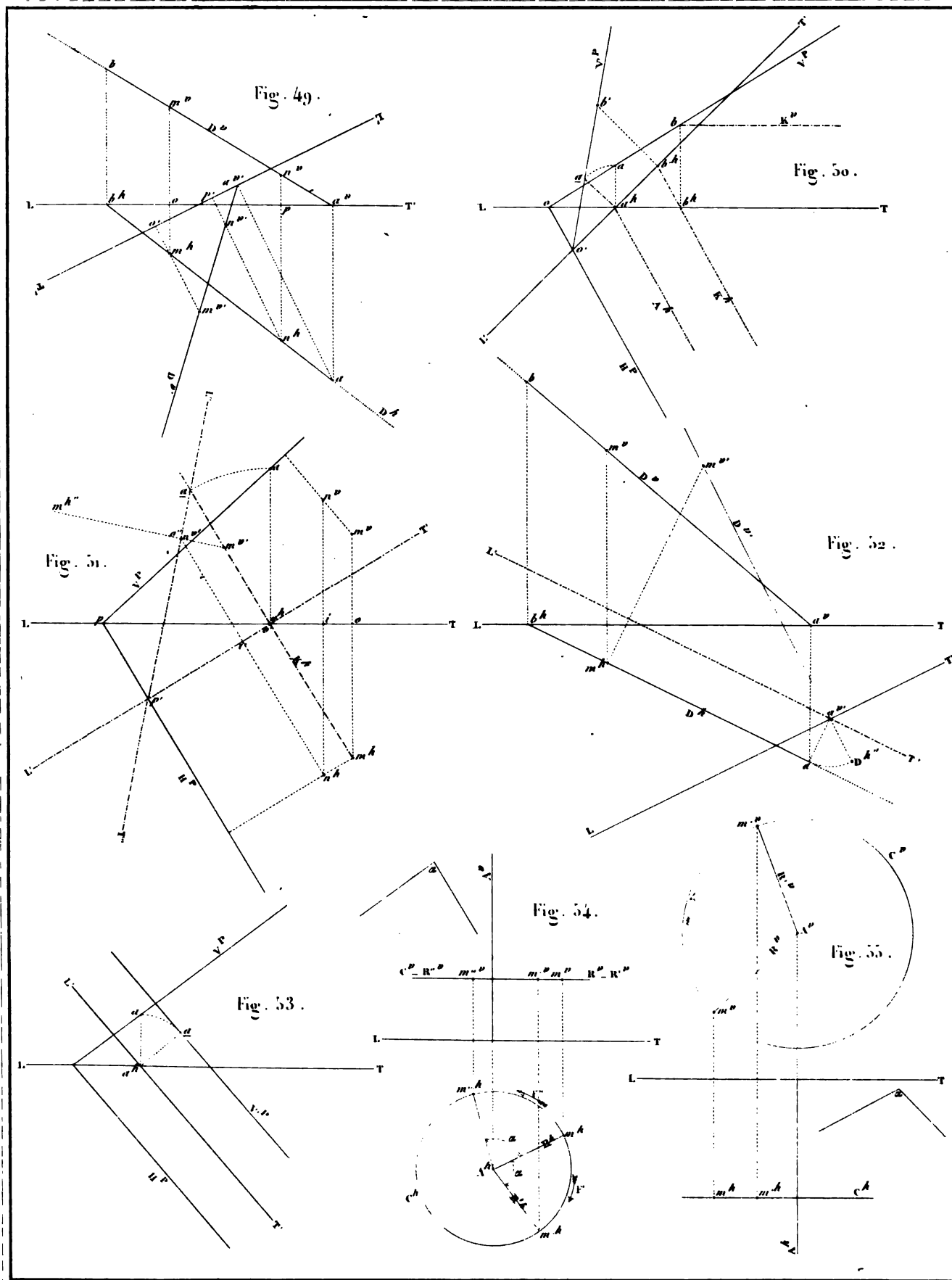












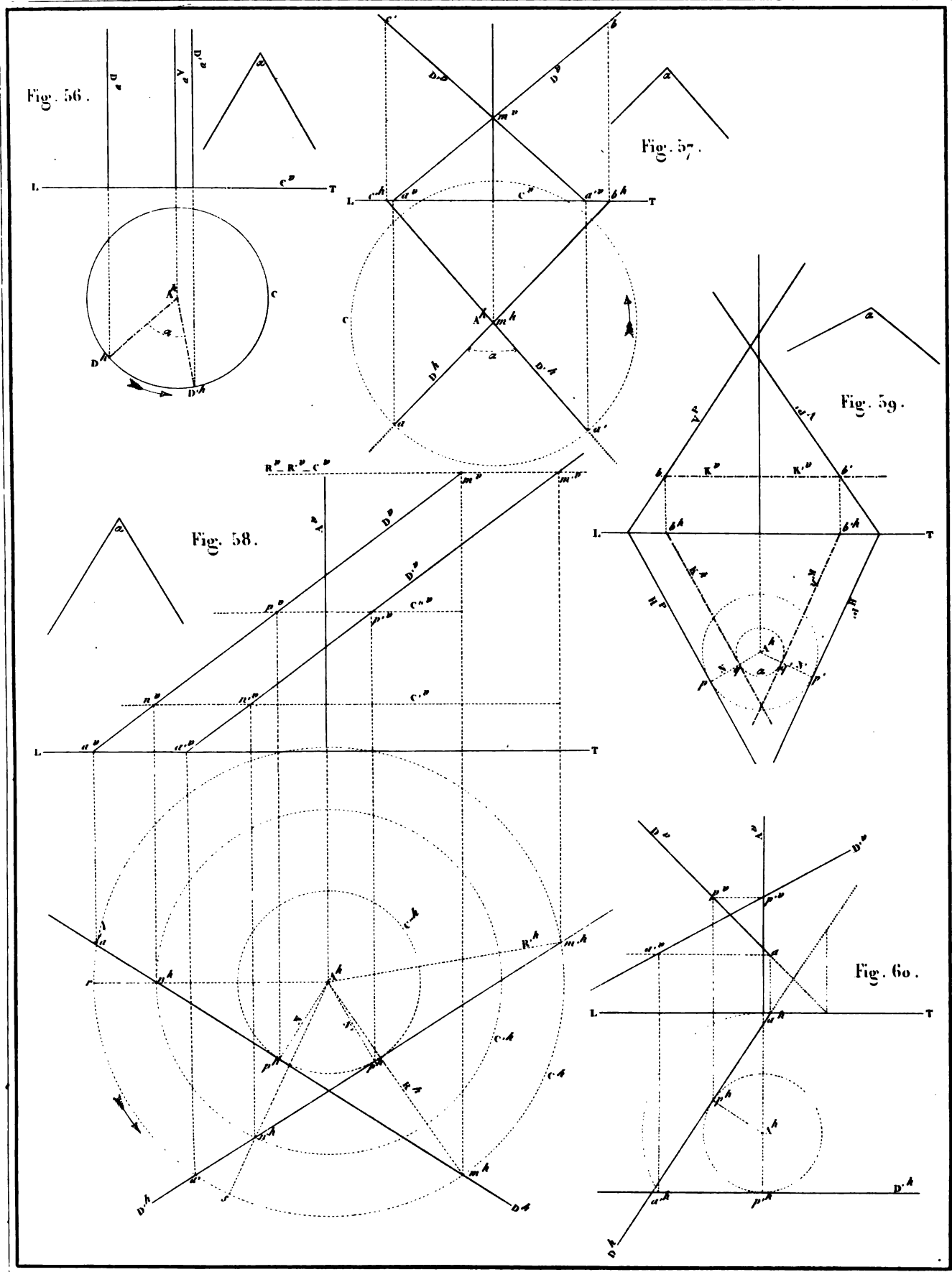


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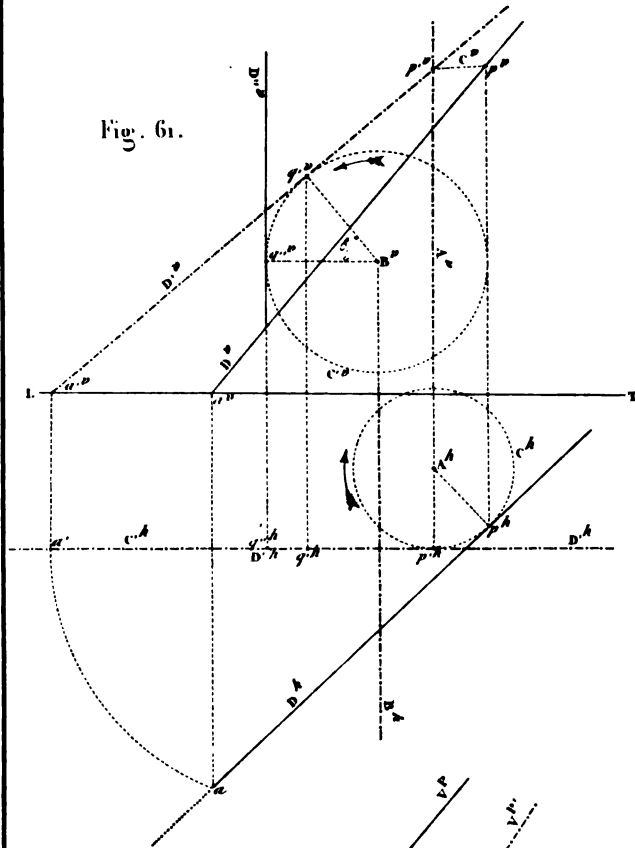


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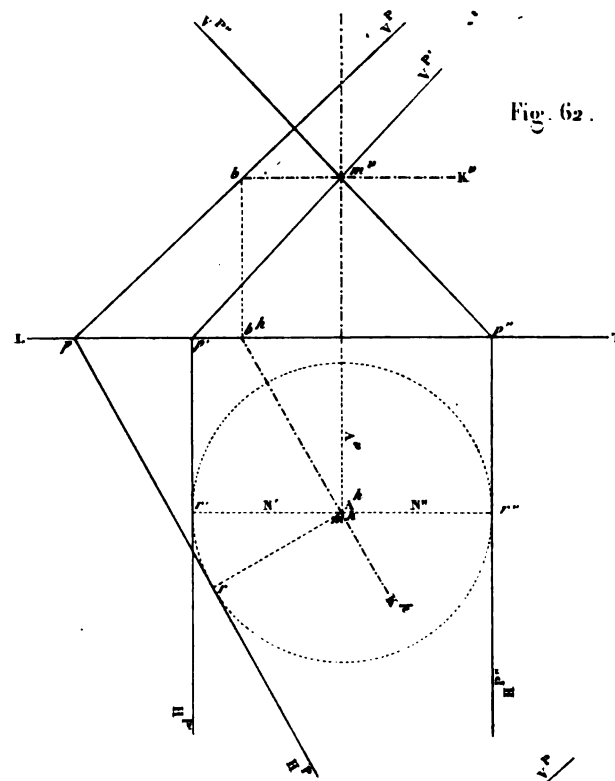


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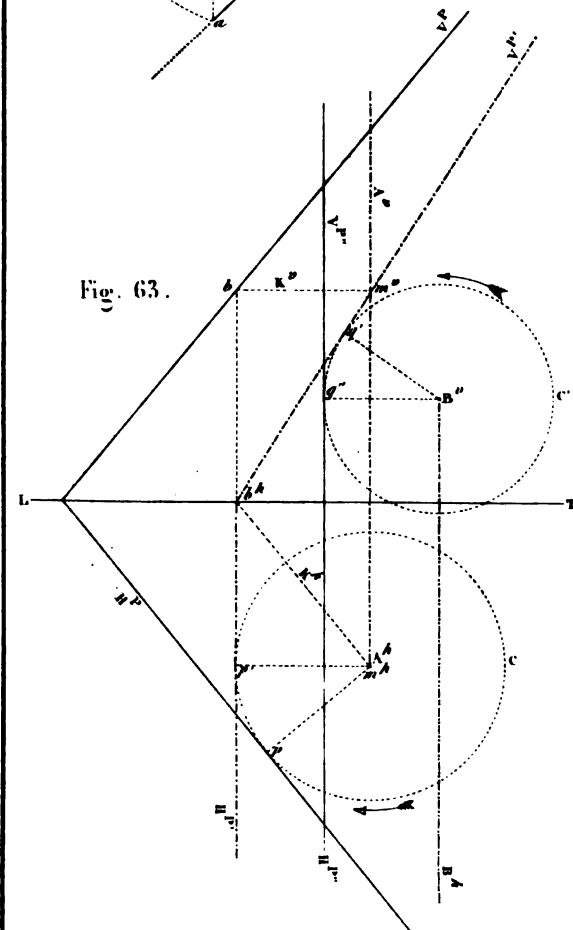
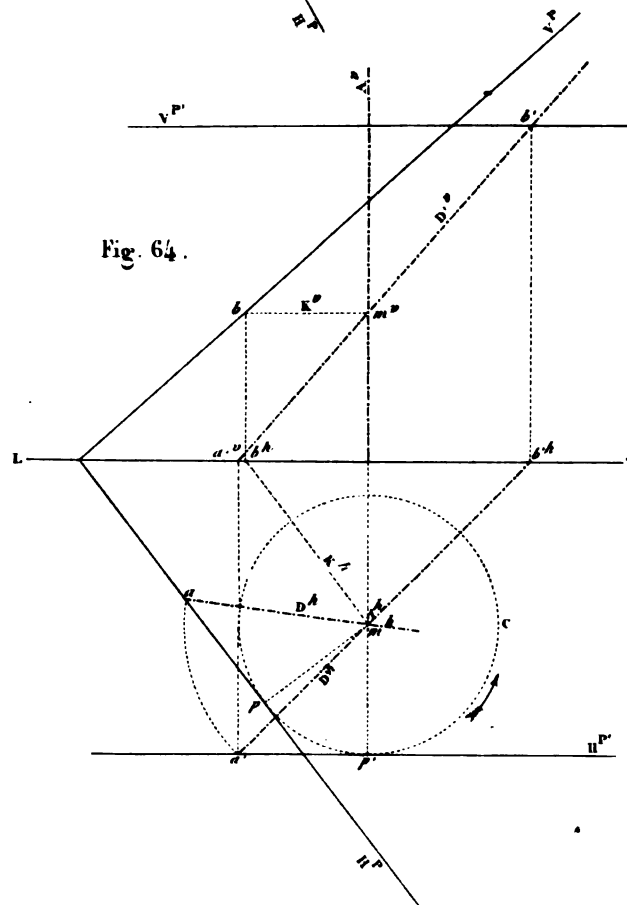
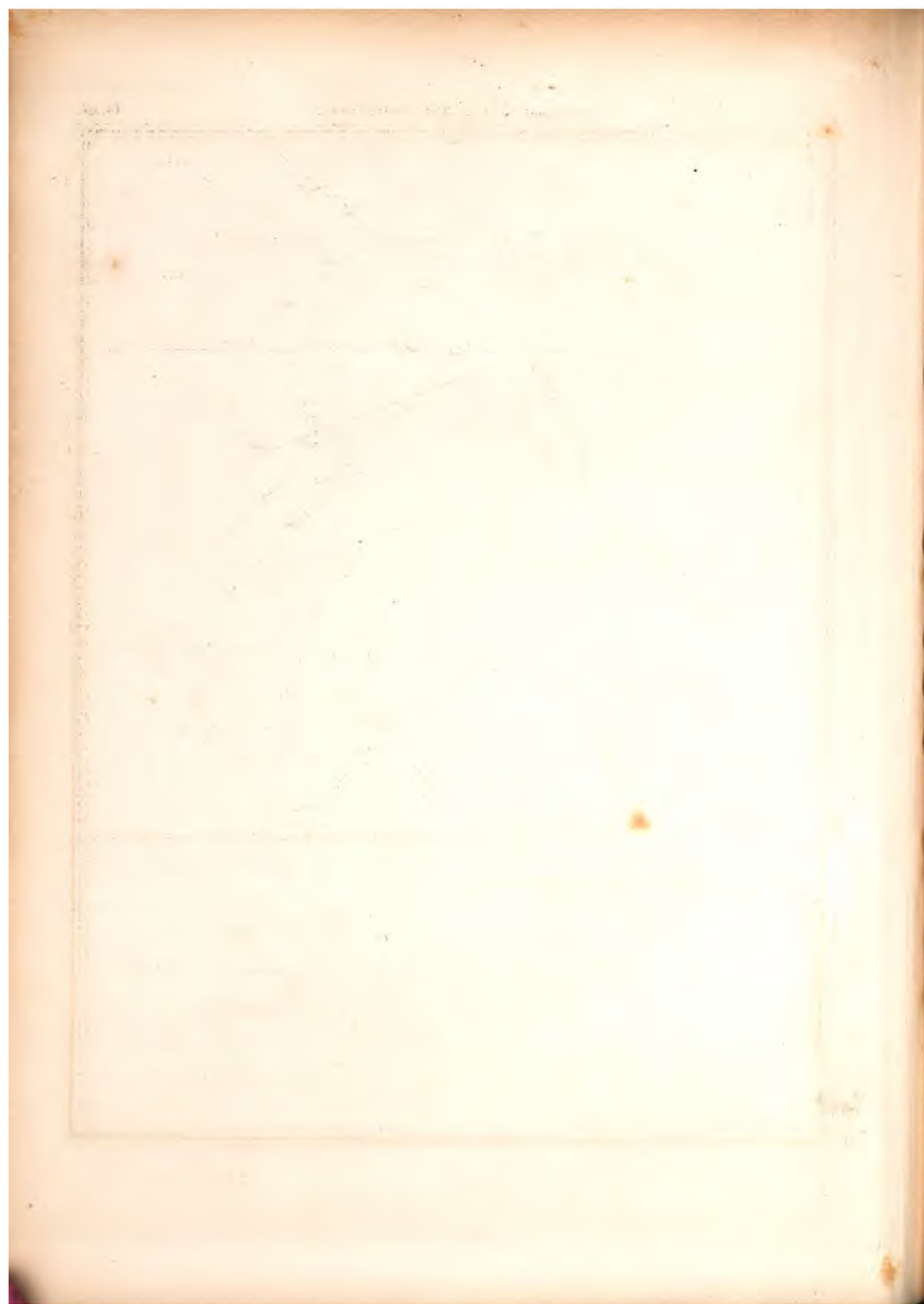
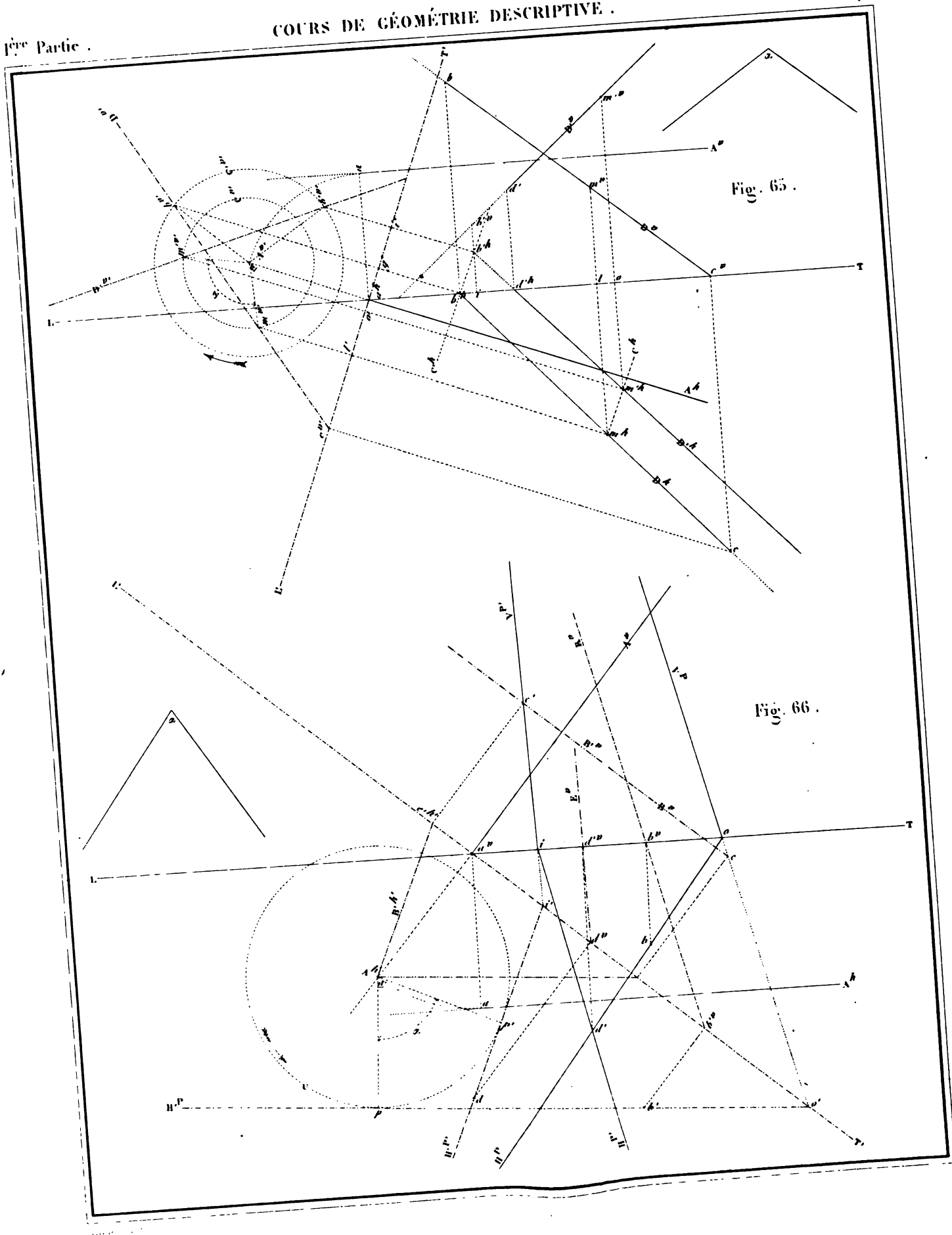


Fig. 64.





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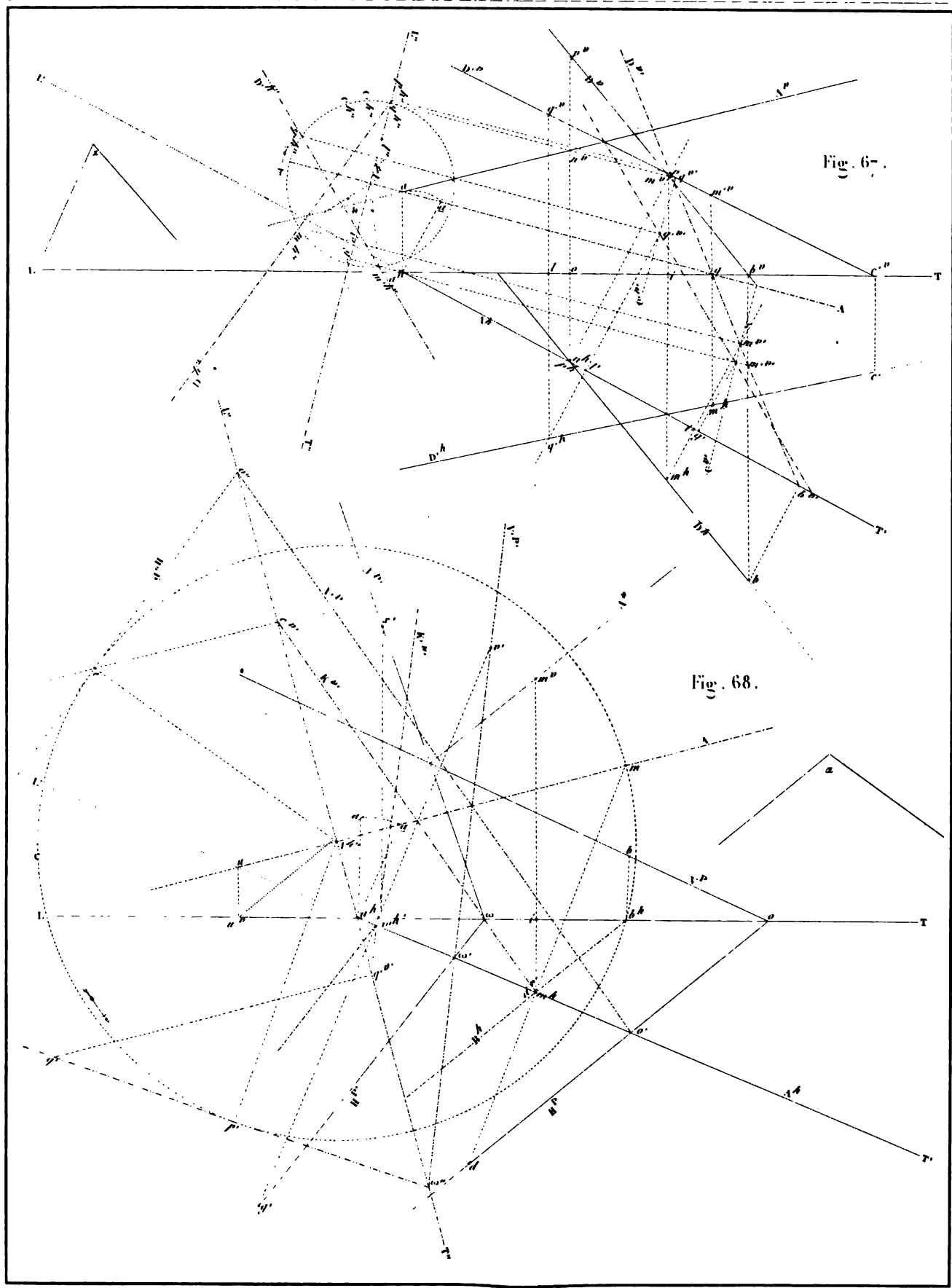


Fig. 69

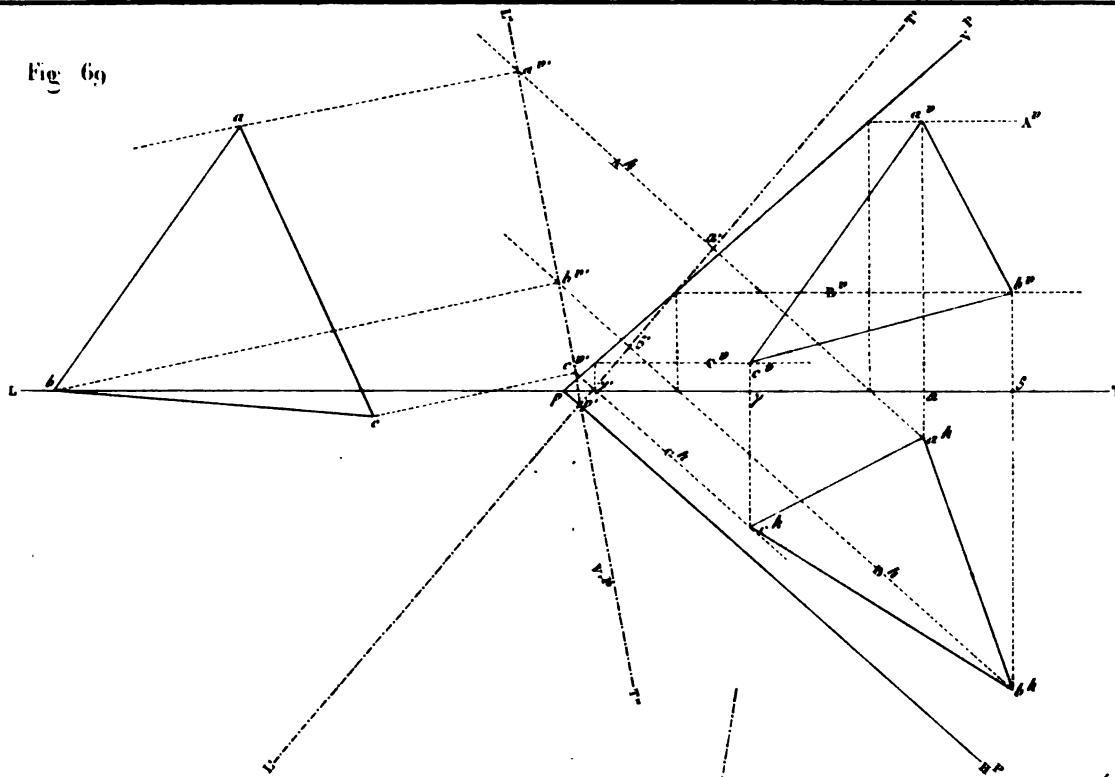
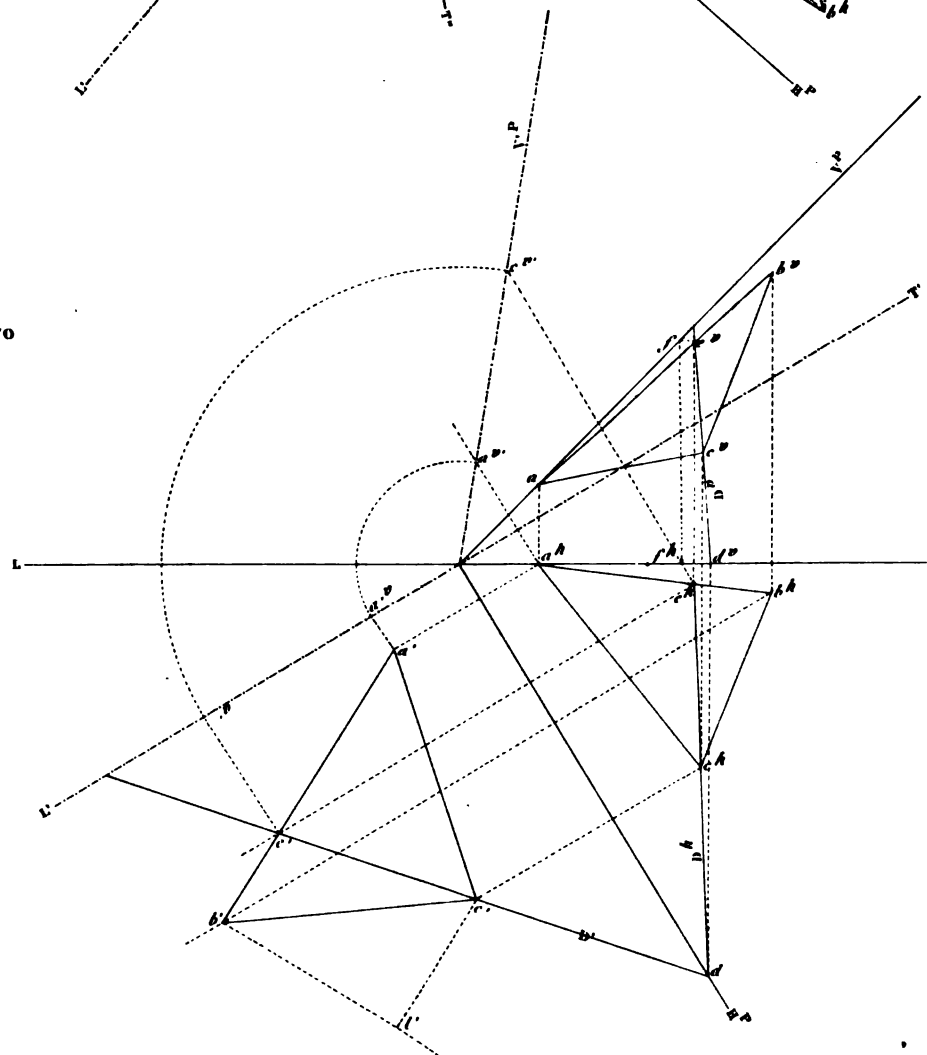
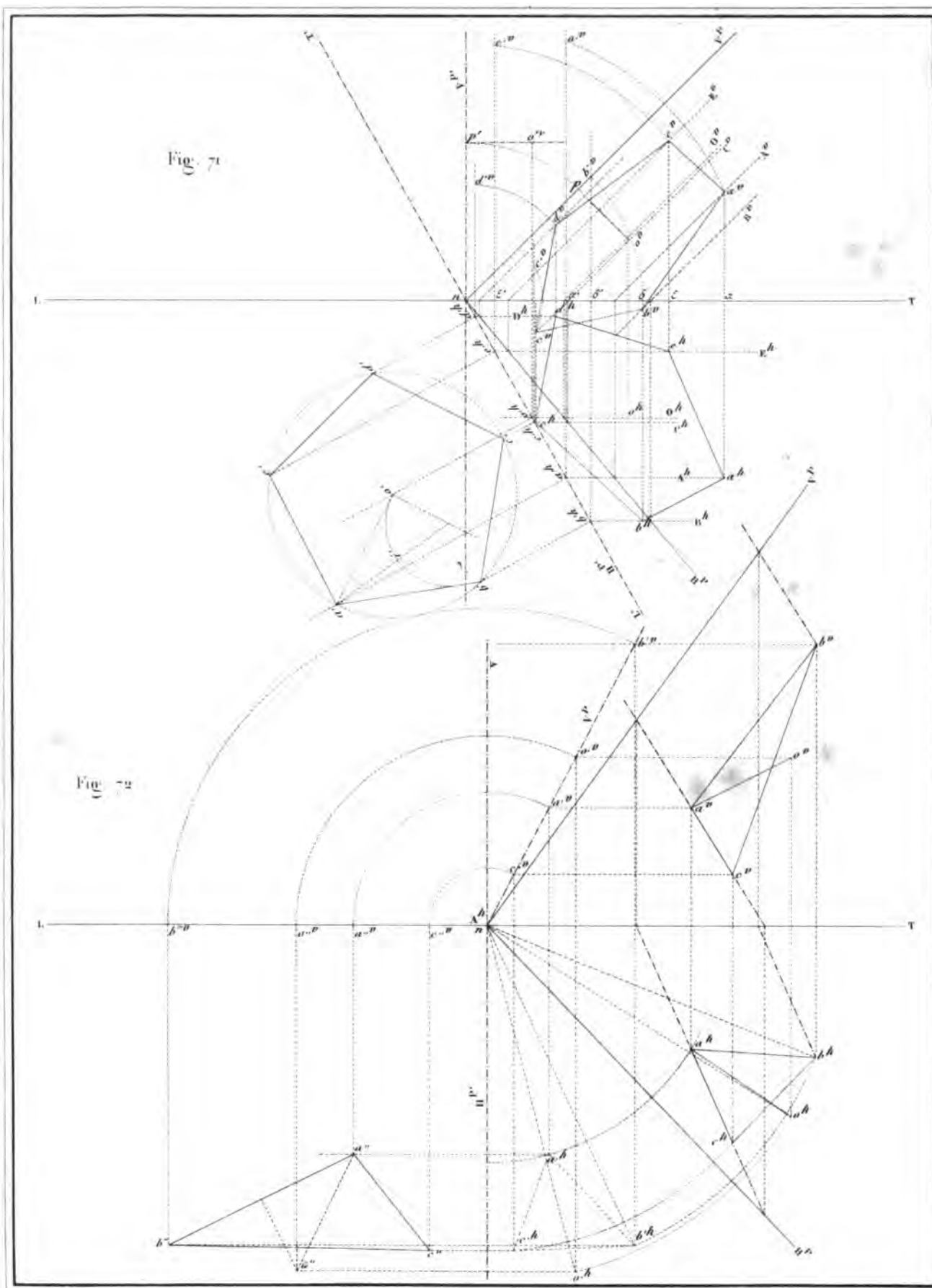
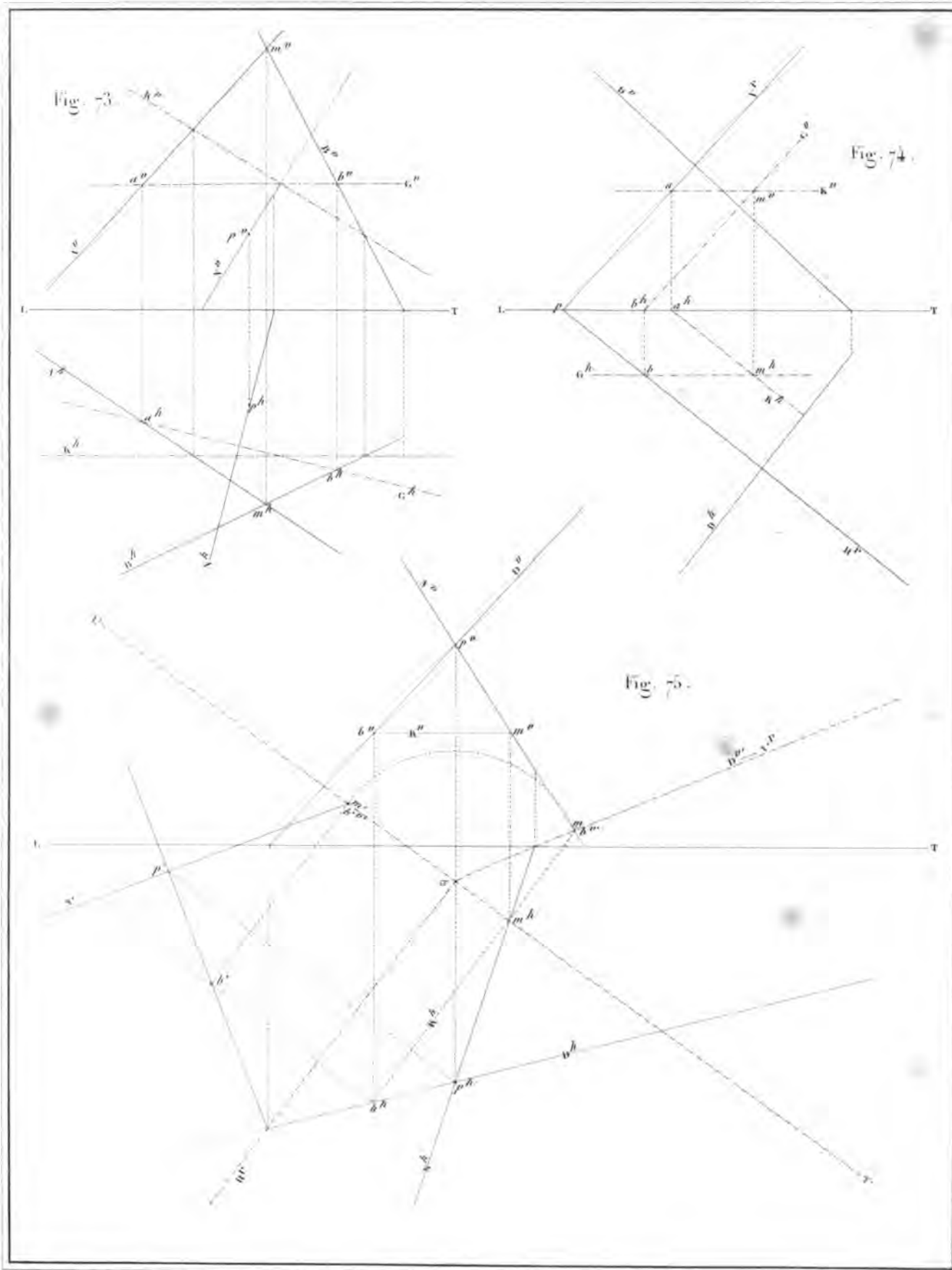
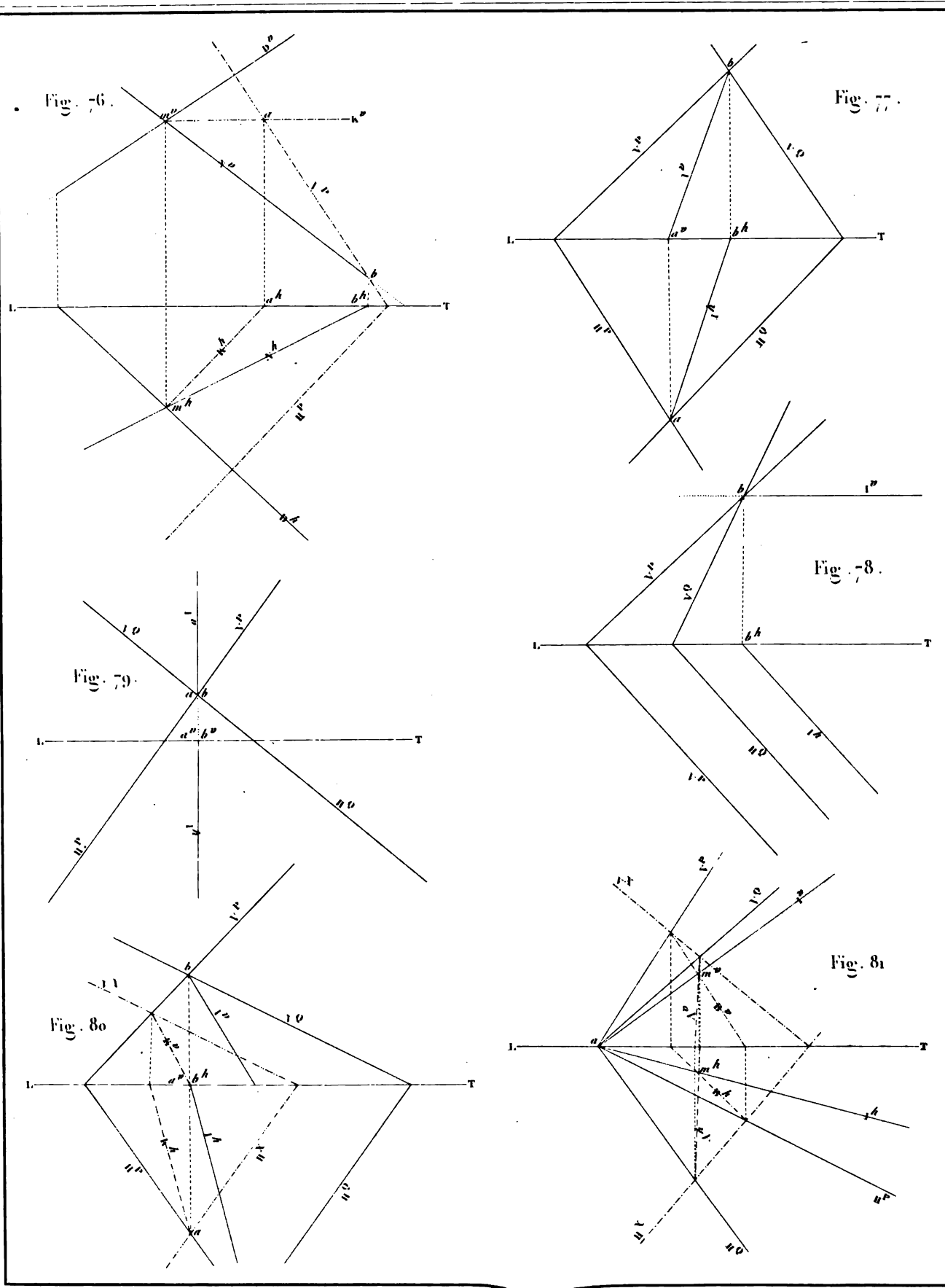


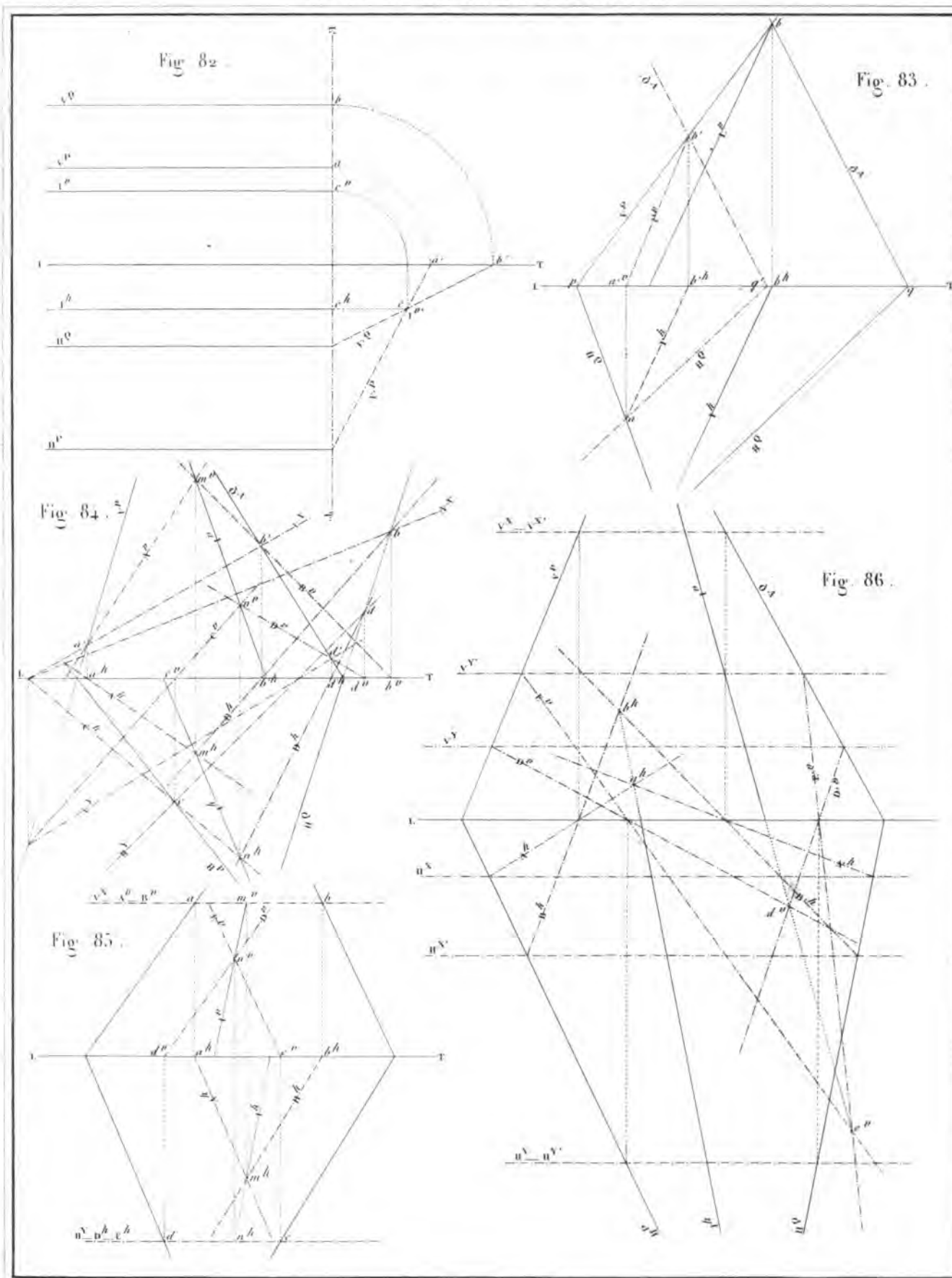
Fig. 70



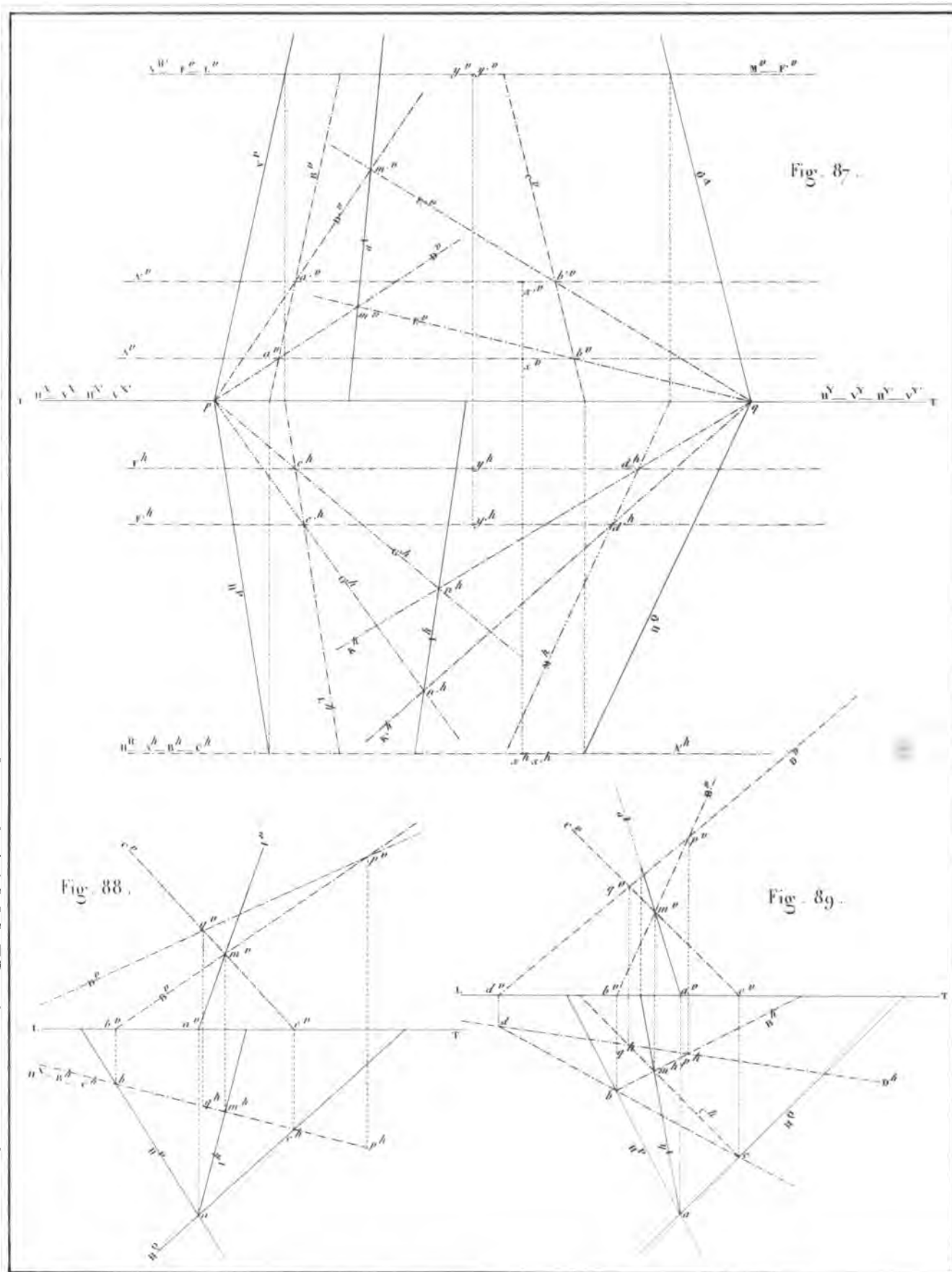


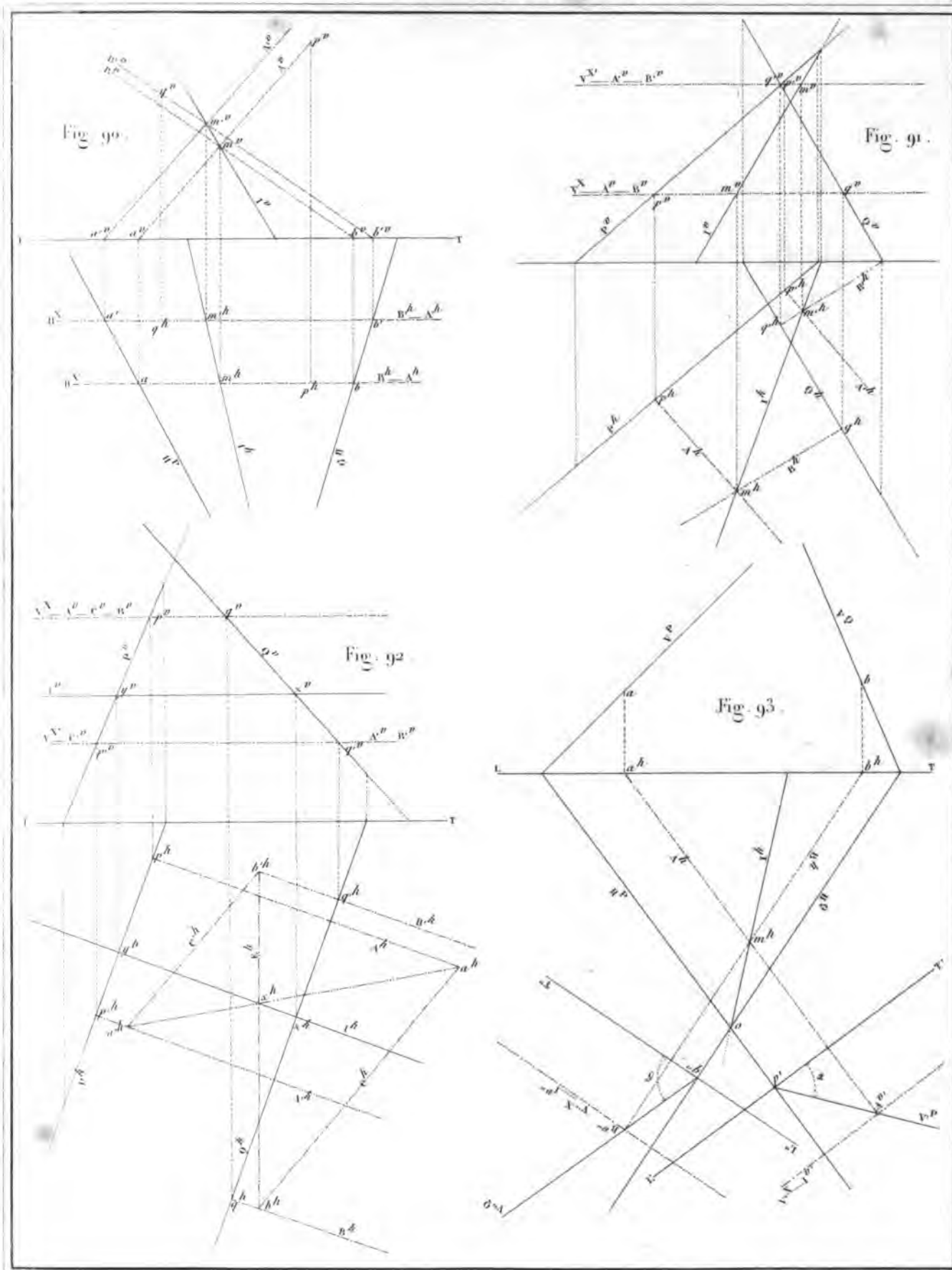


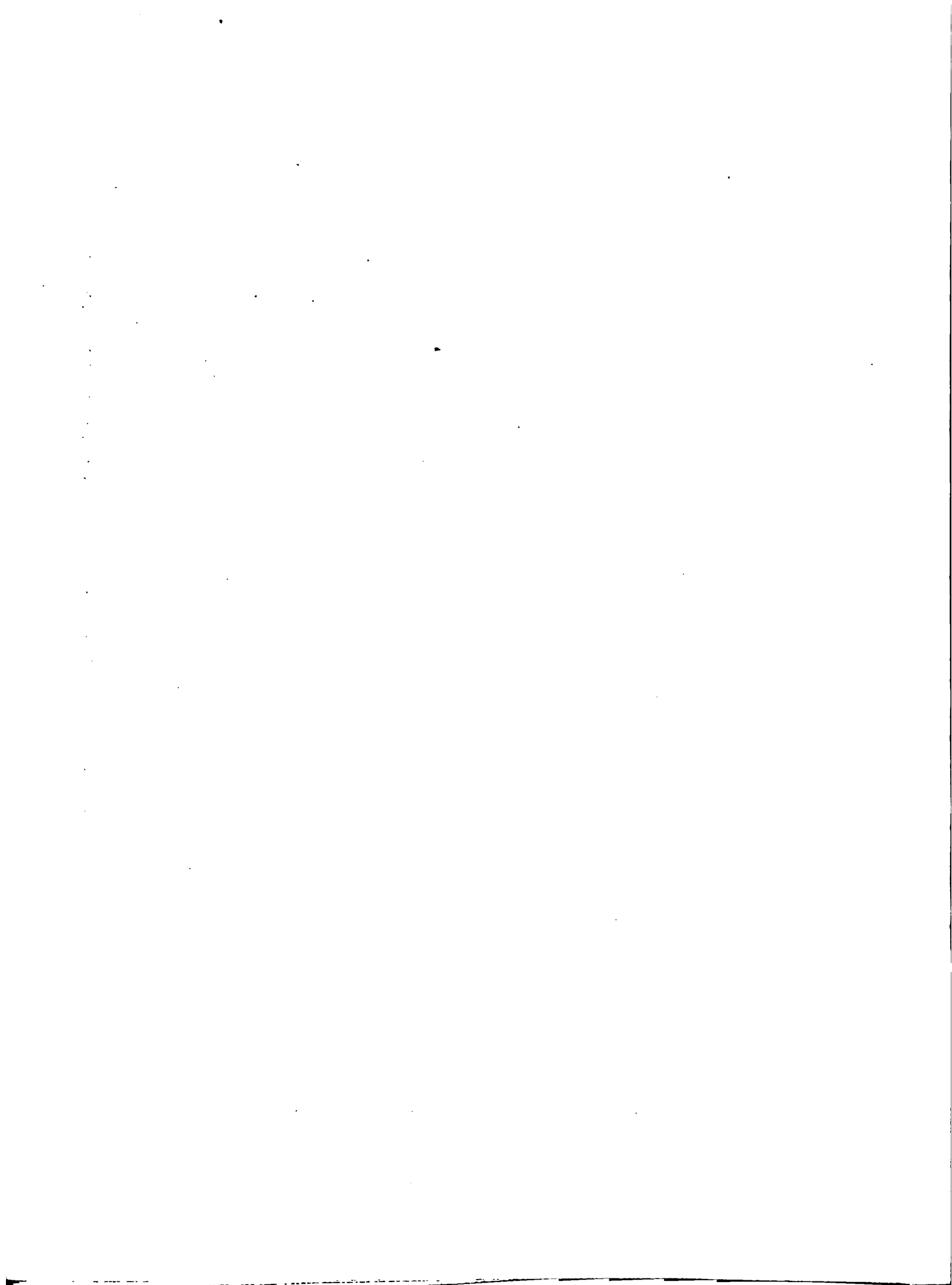


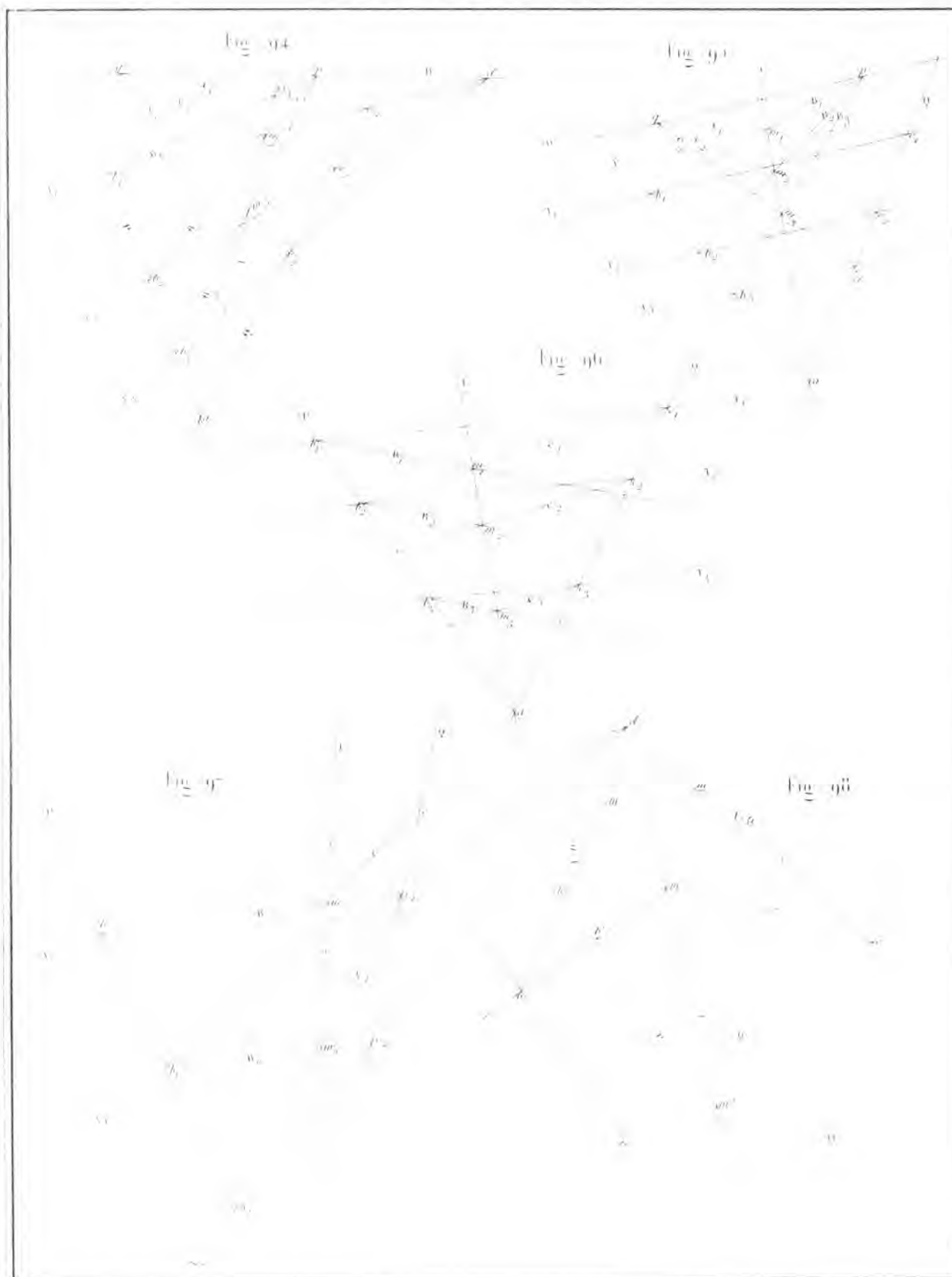


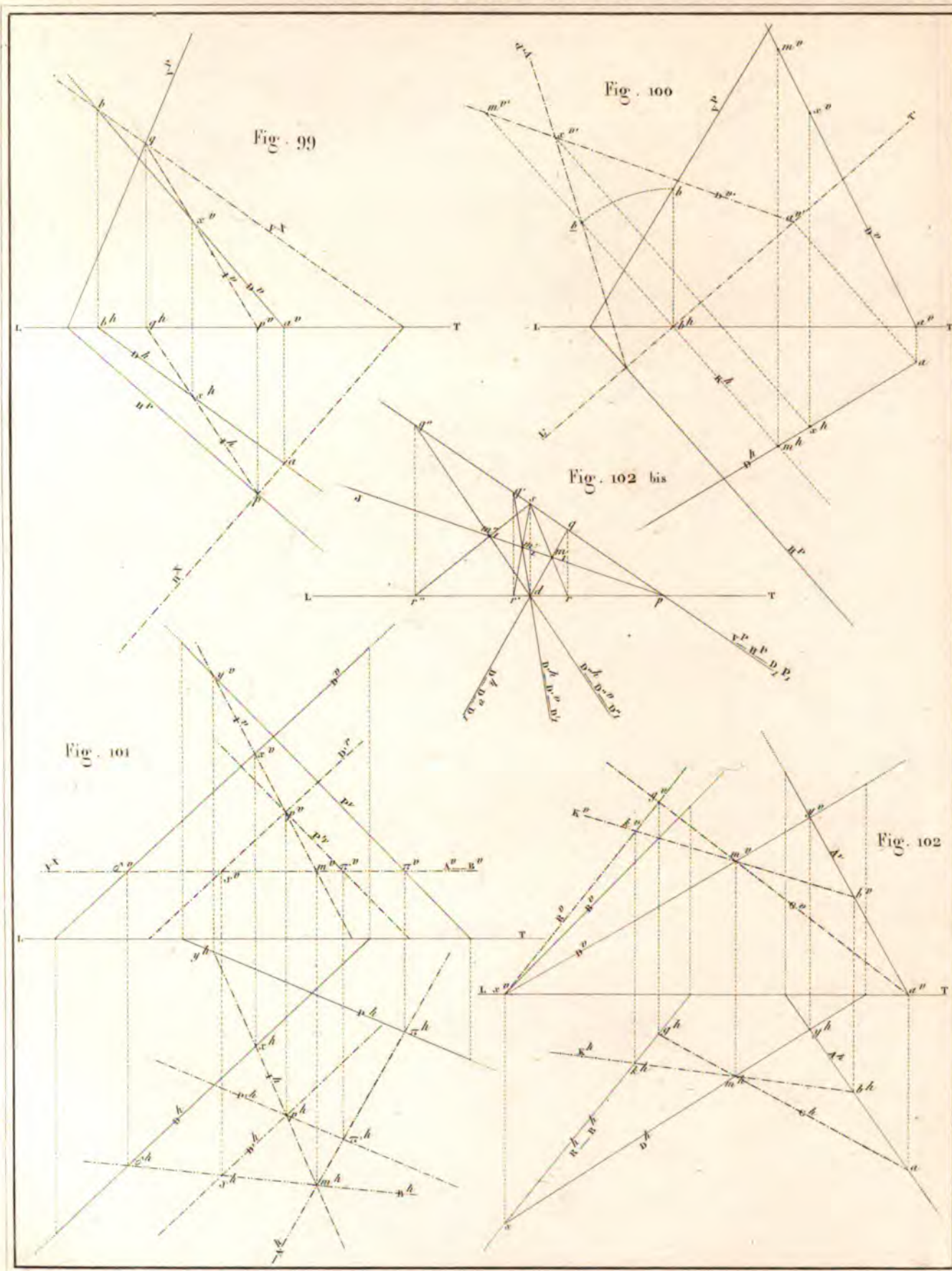


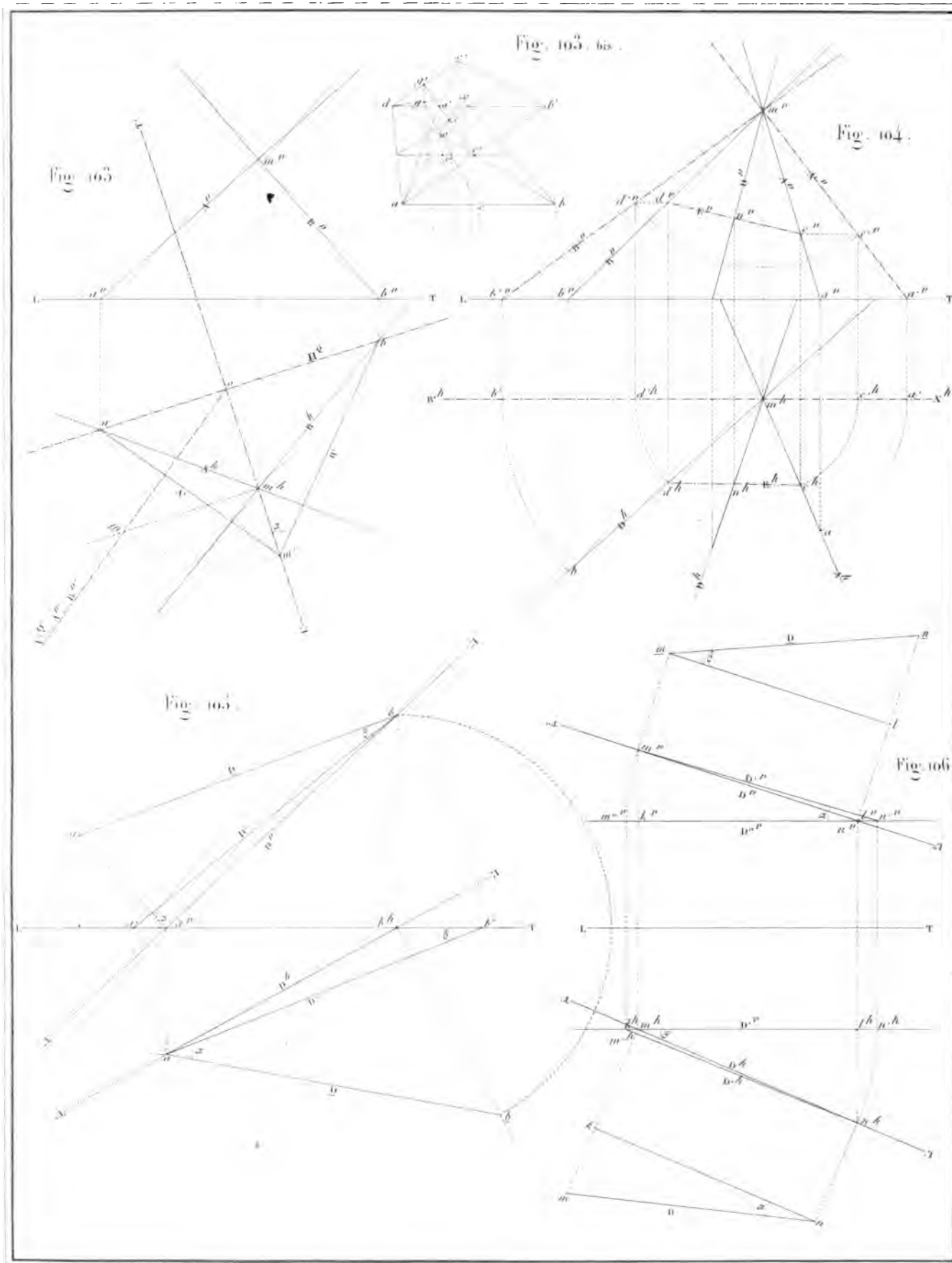


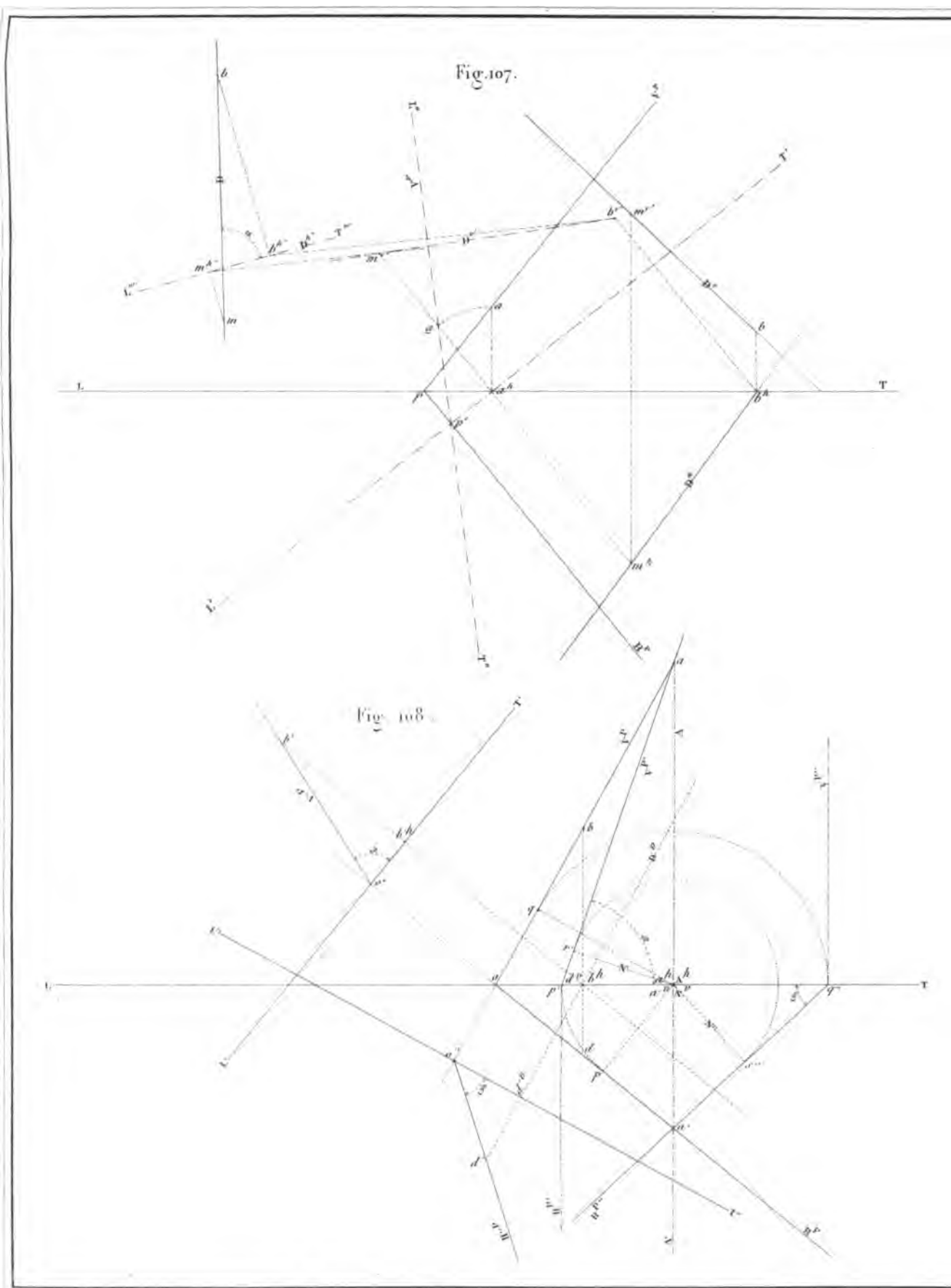












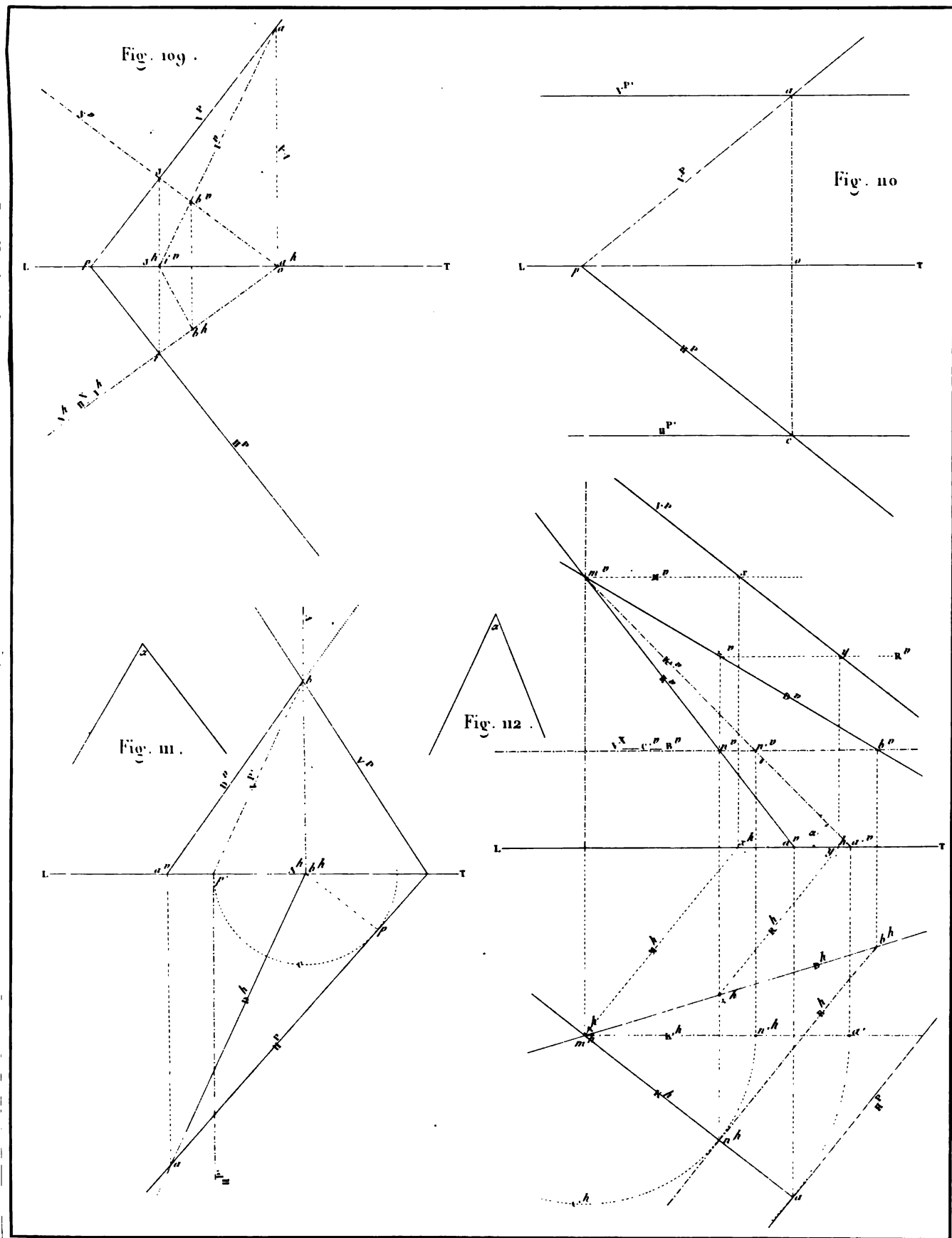




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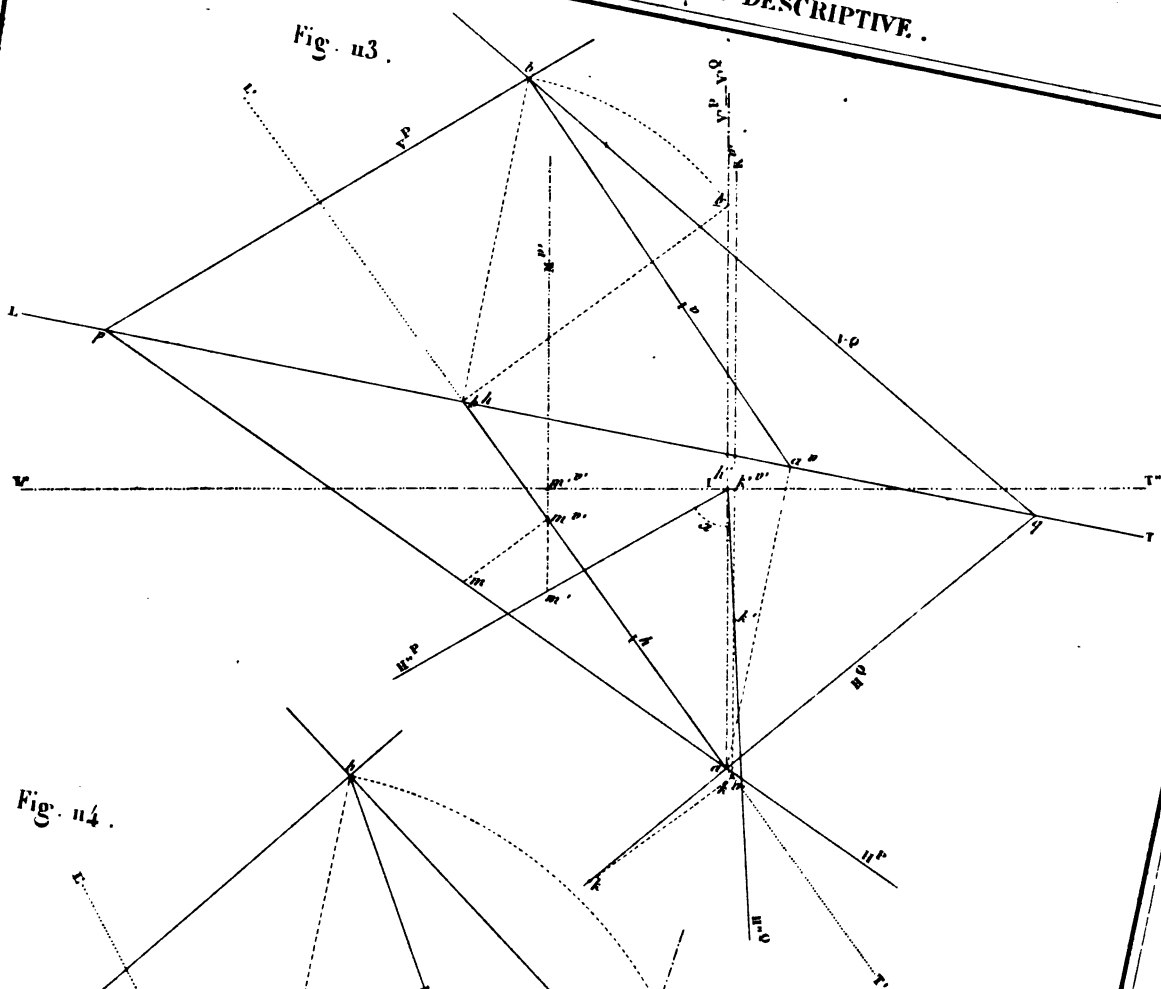


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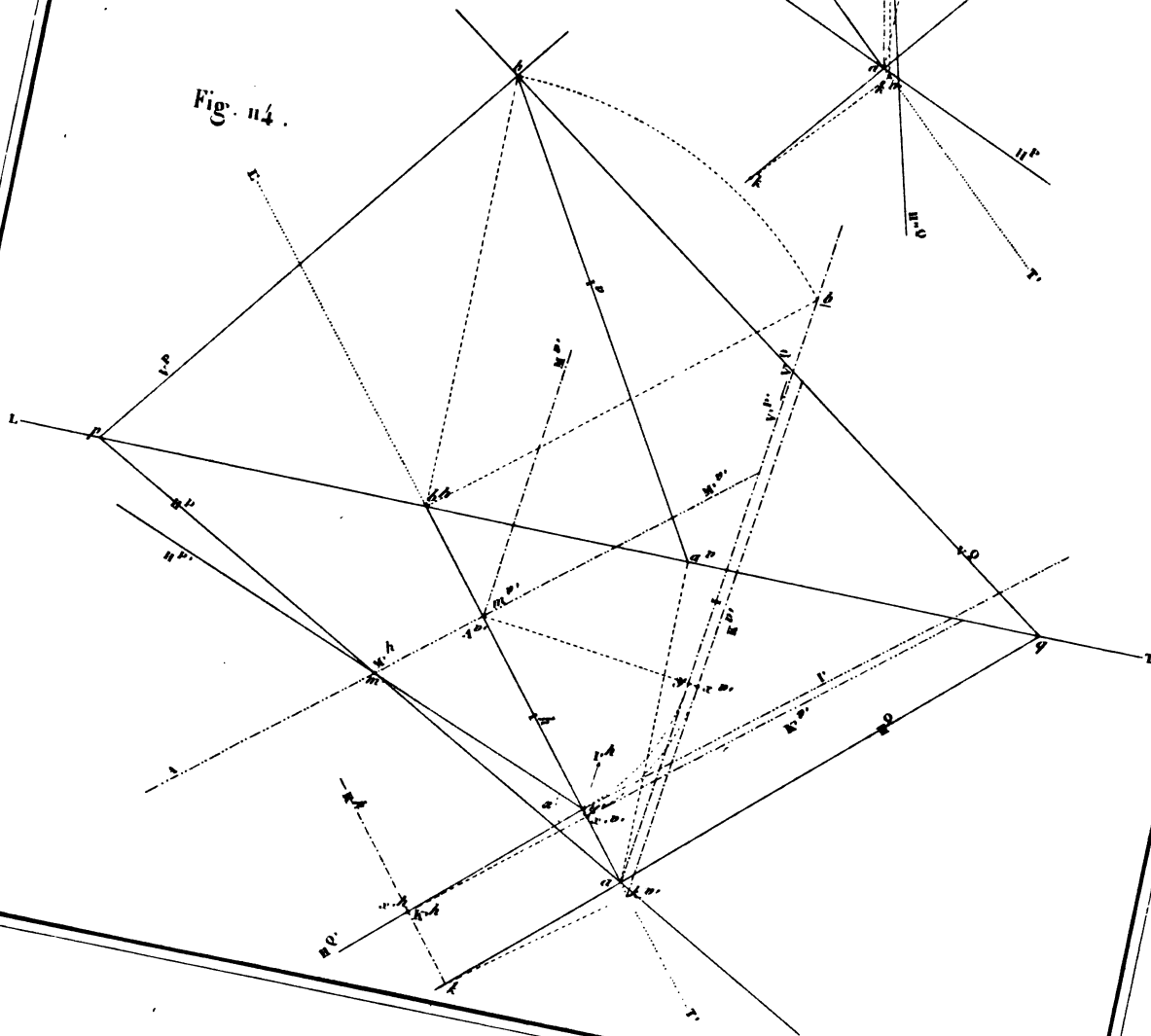


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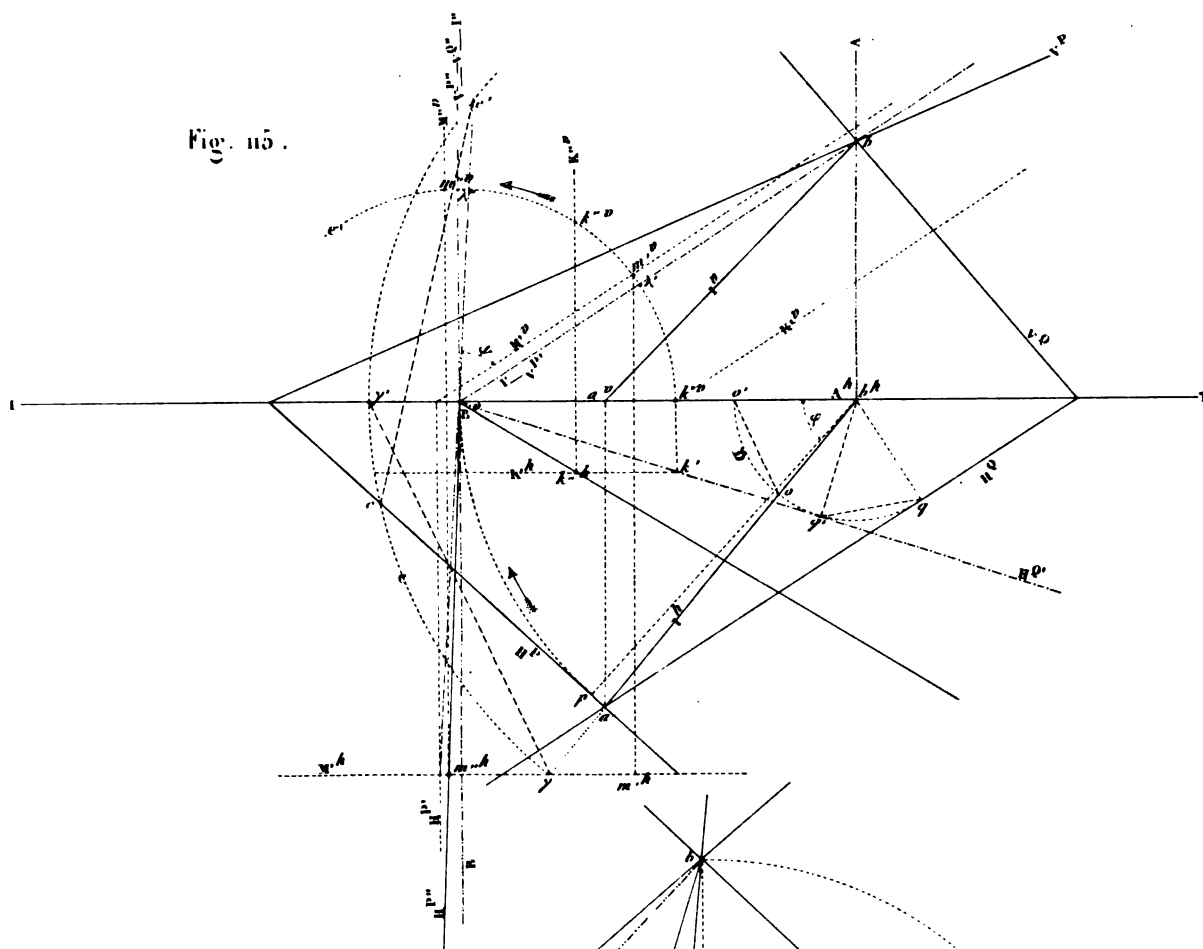


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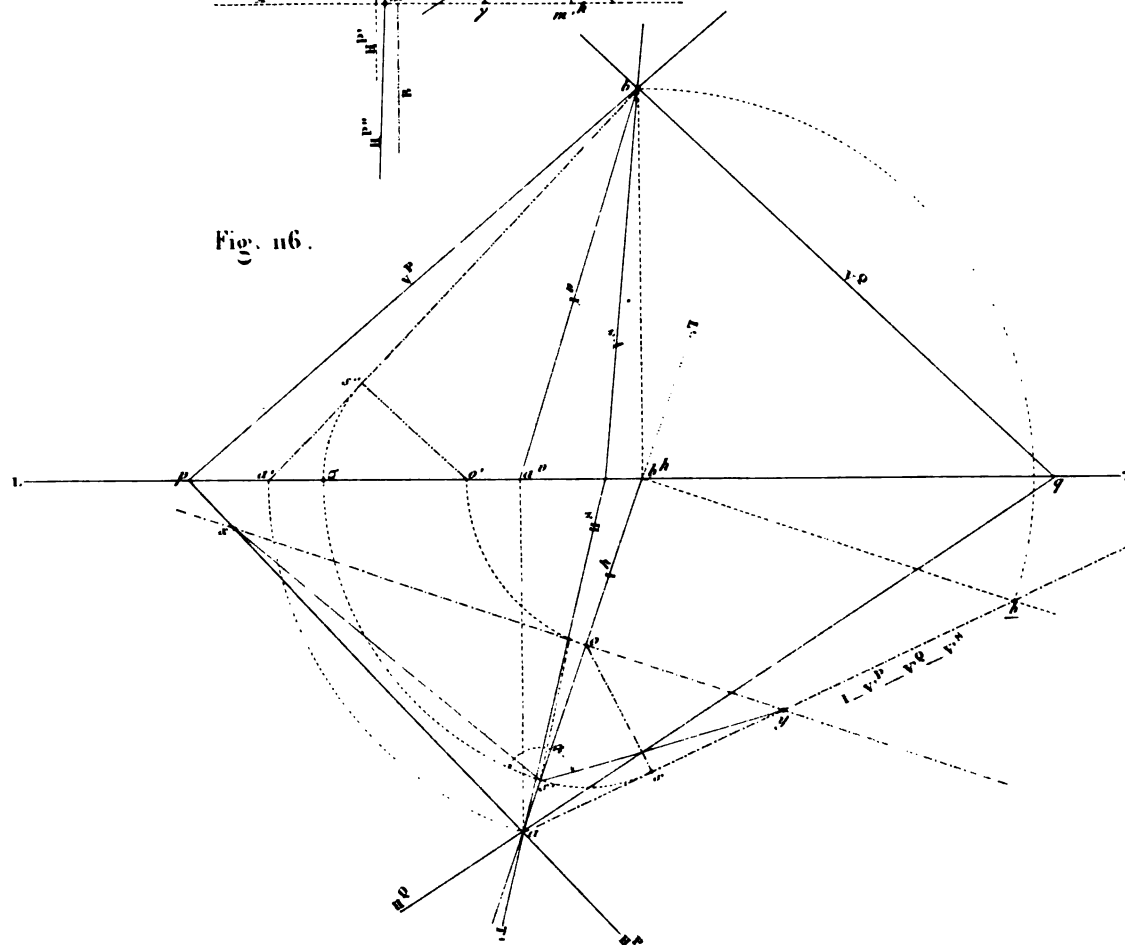


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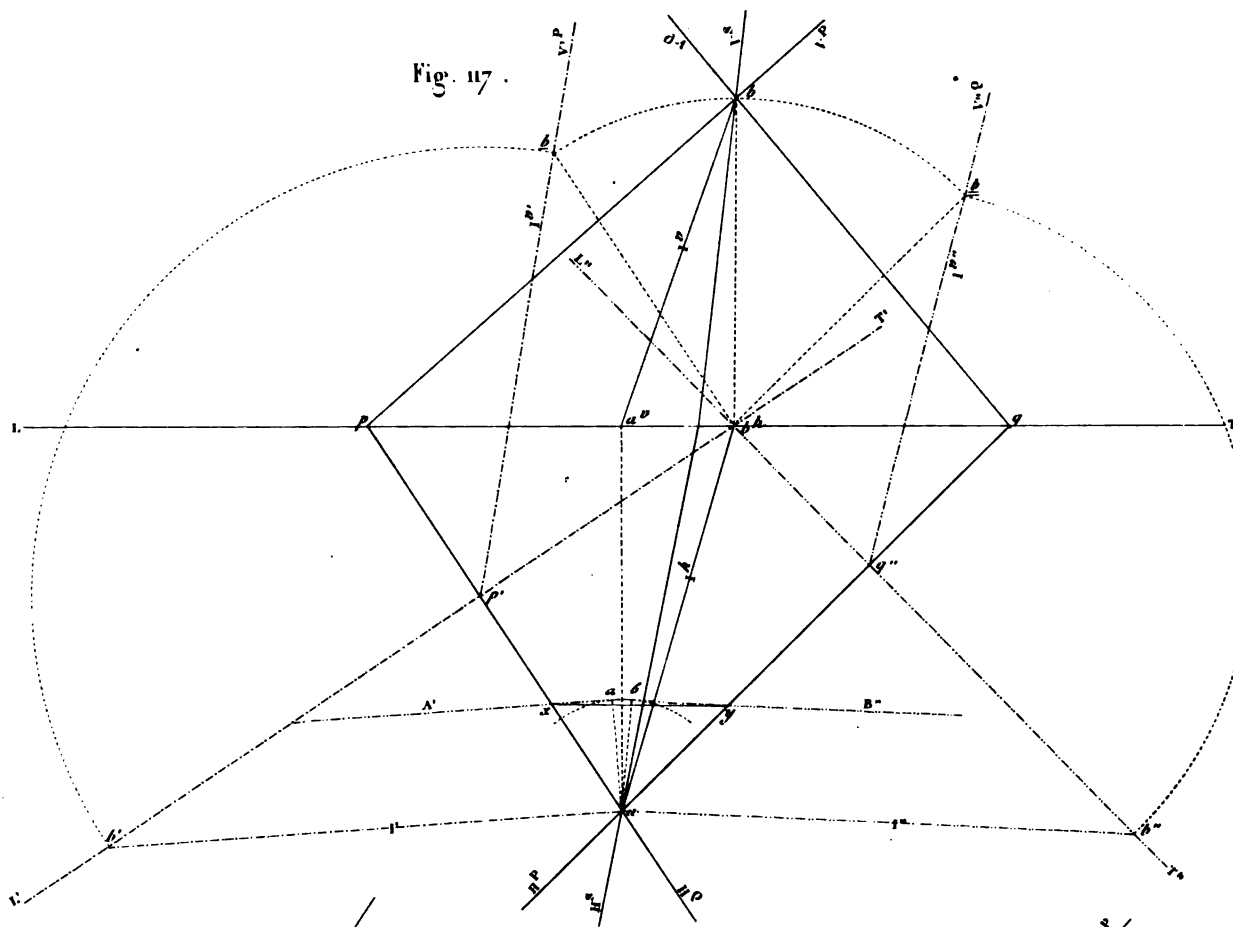


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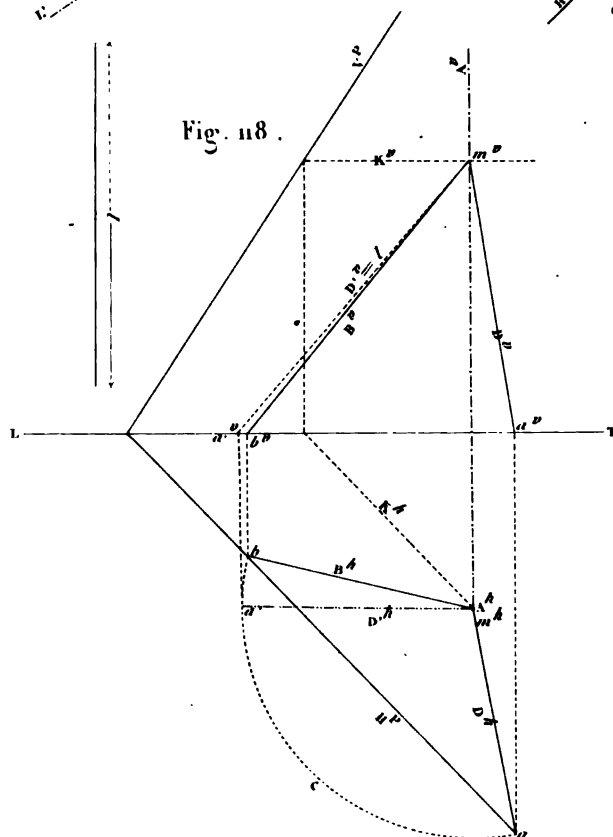


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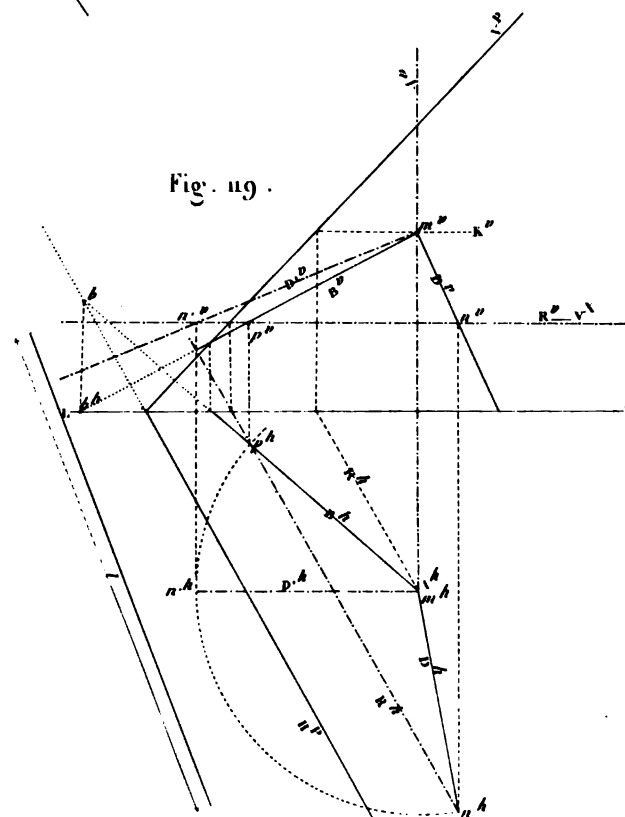


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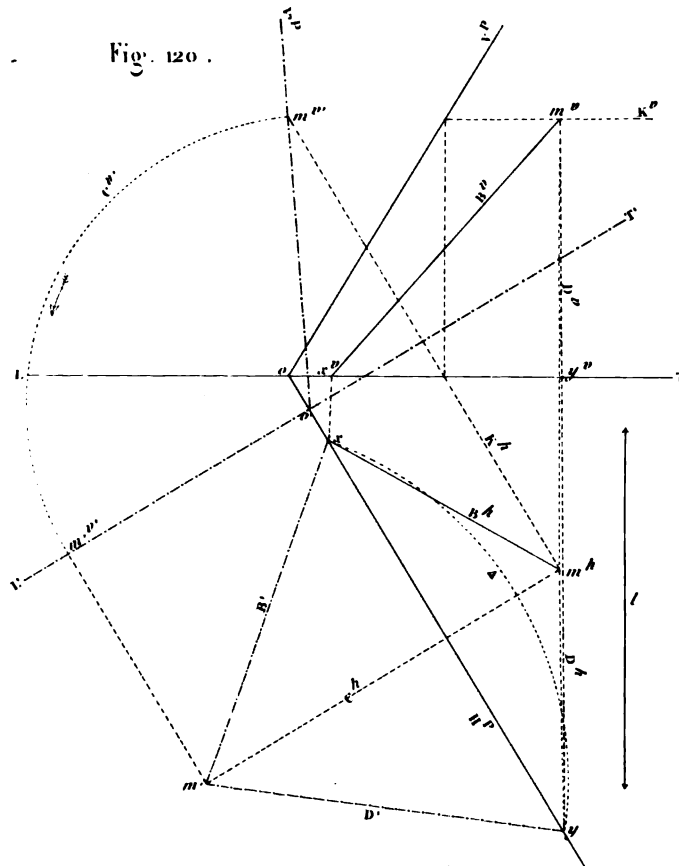


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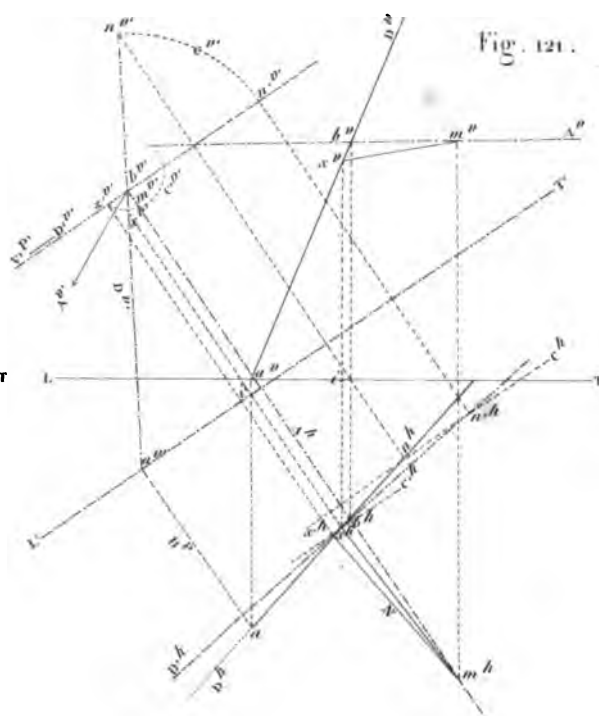


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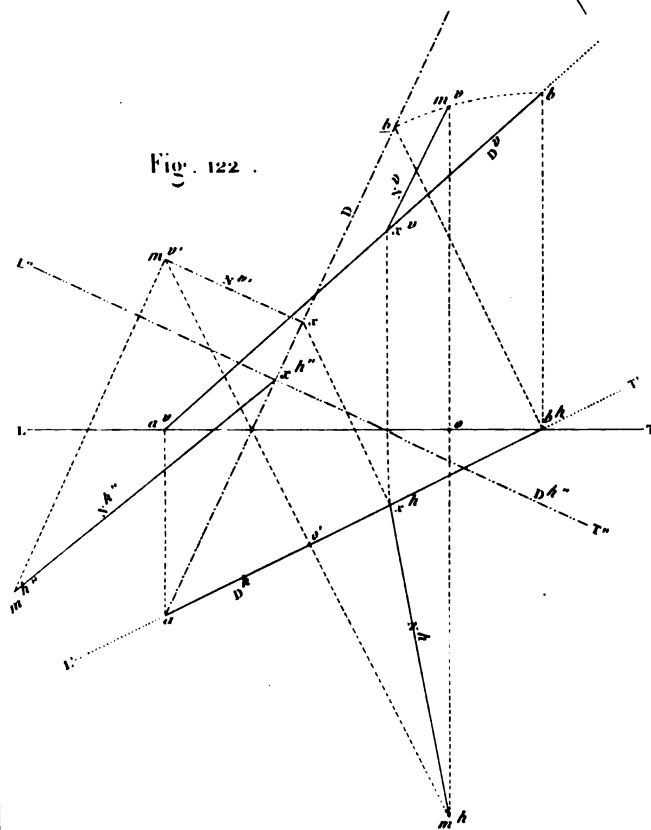
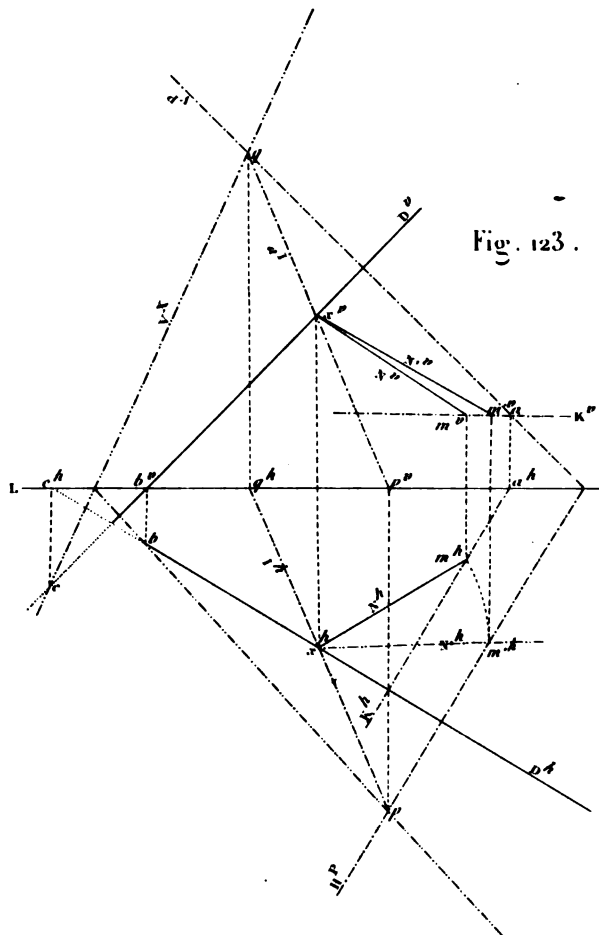
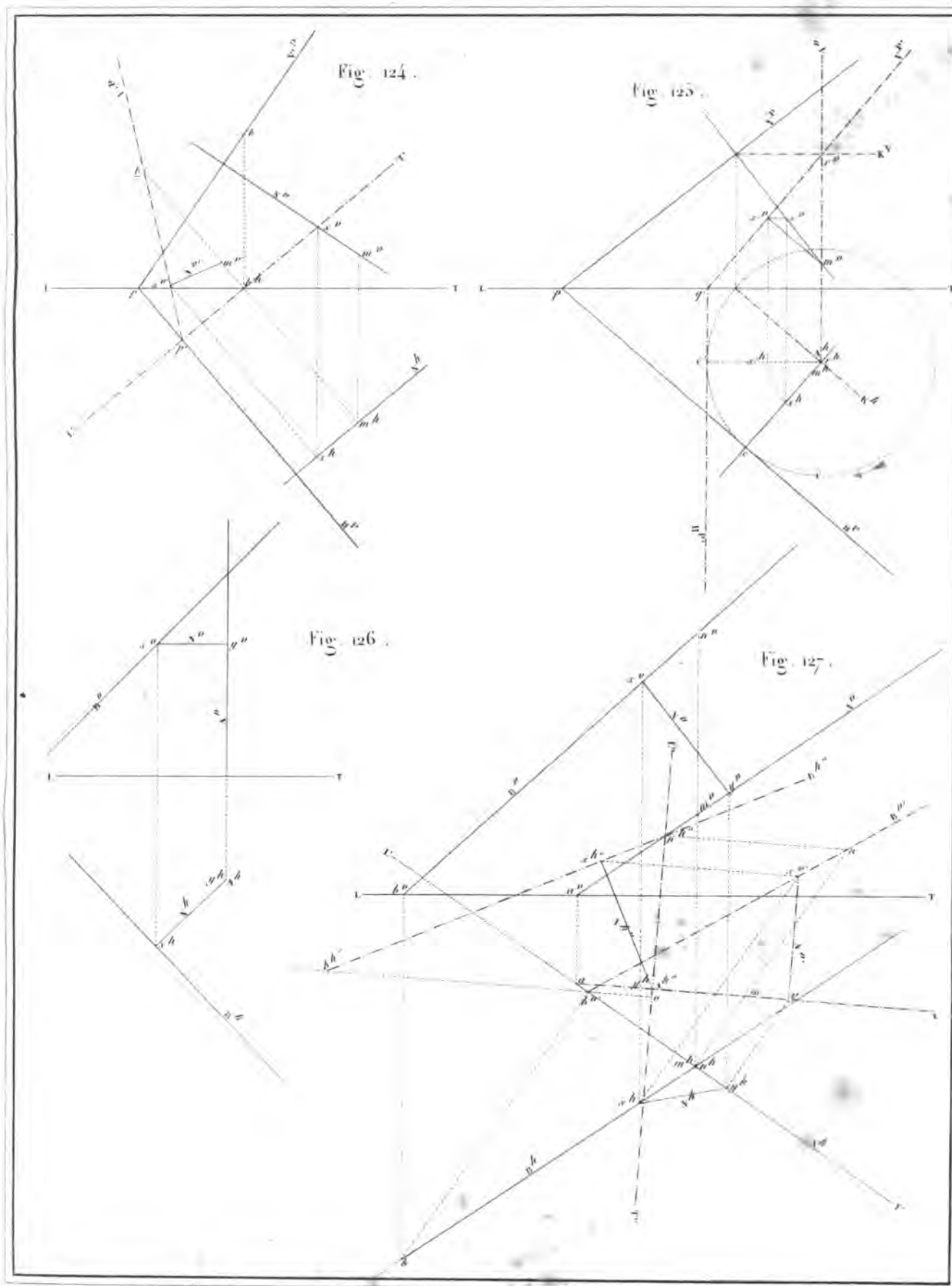
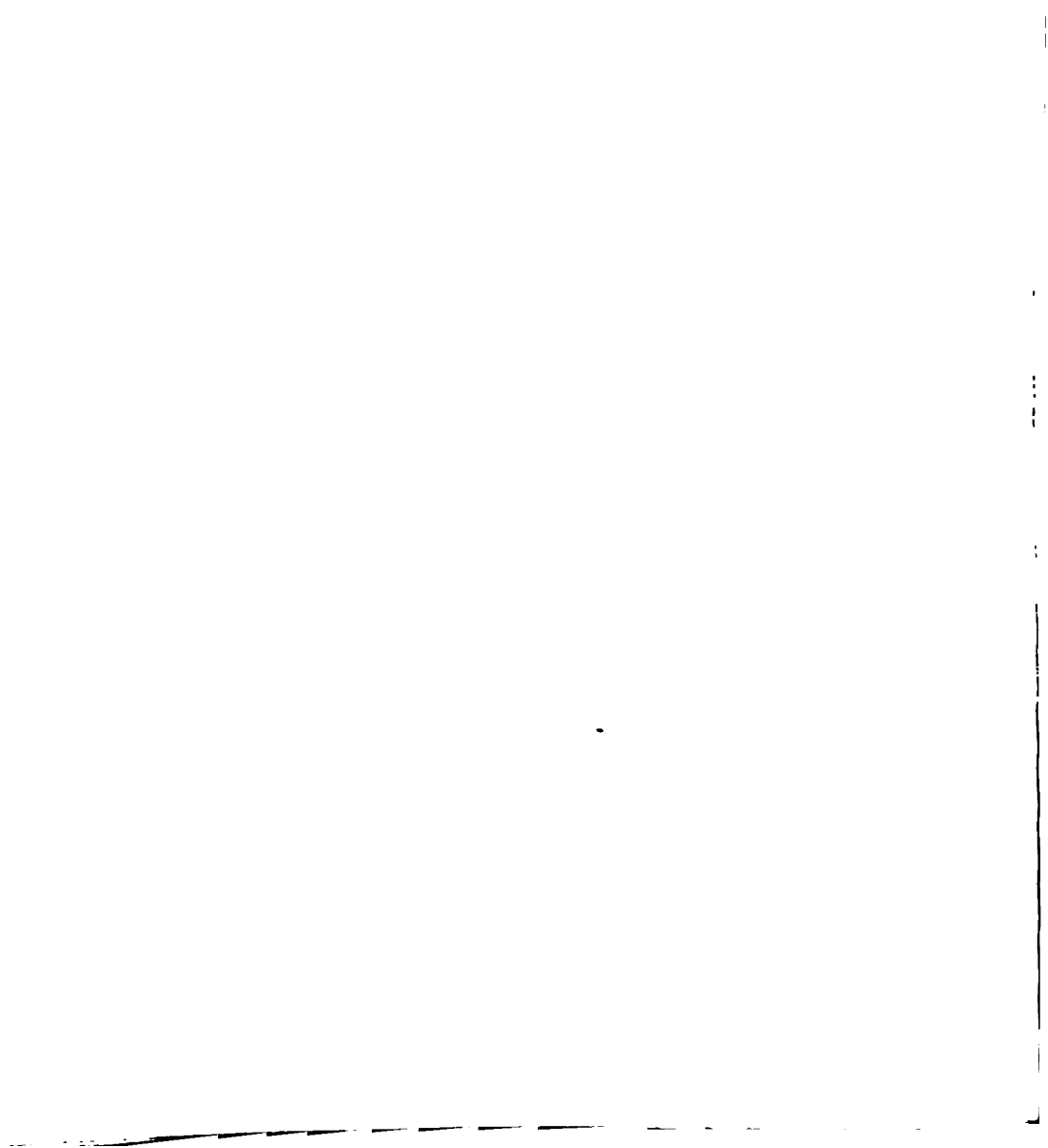
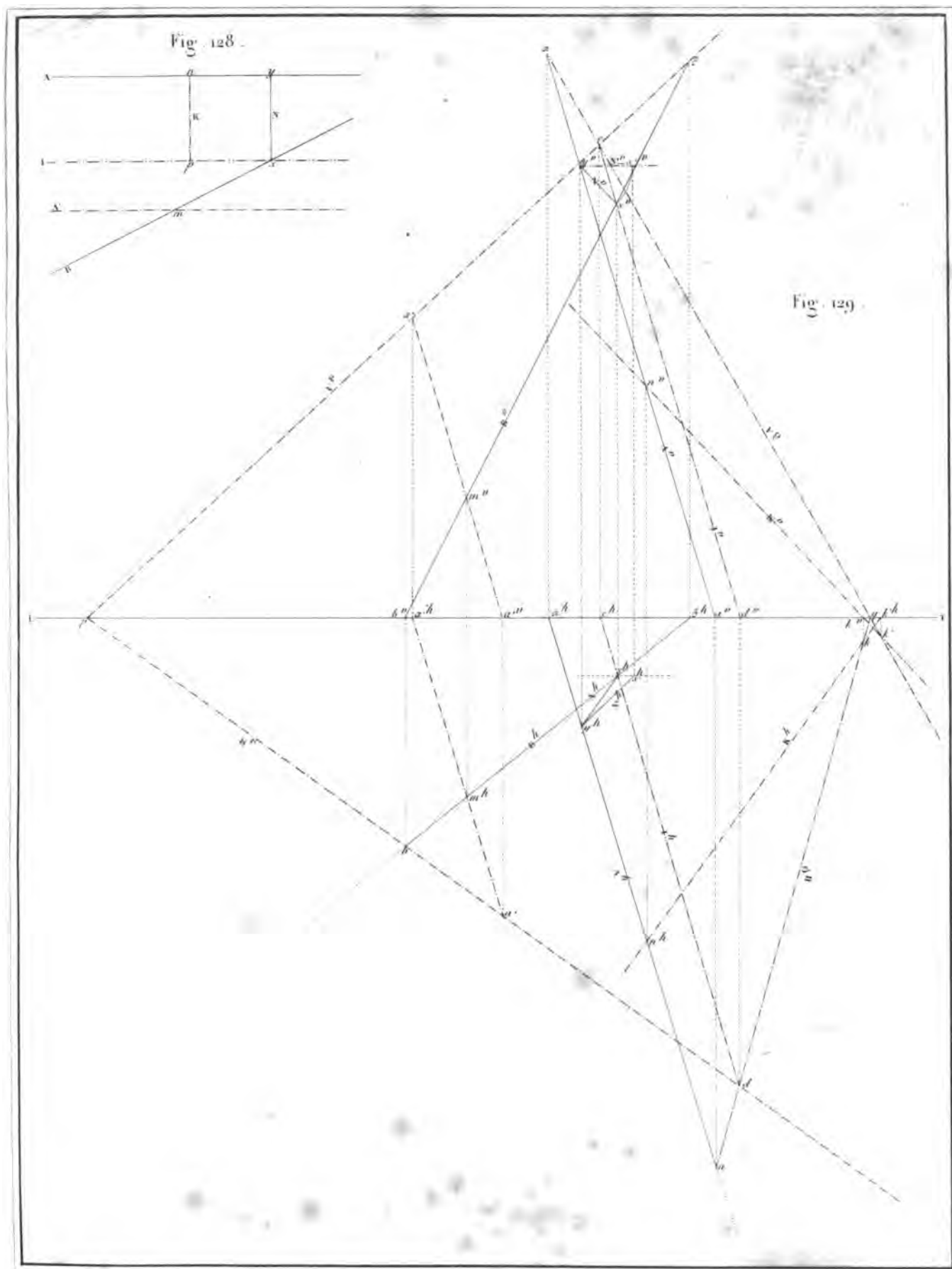


Fig. 123.











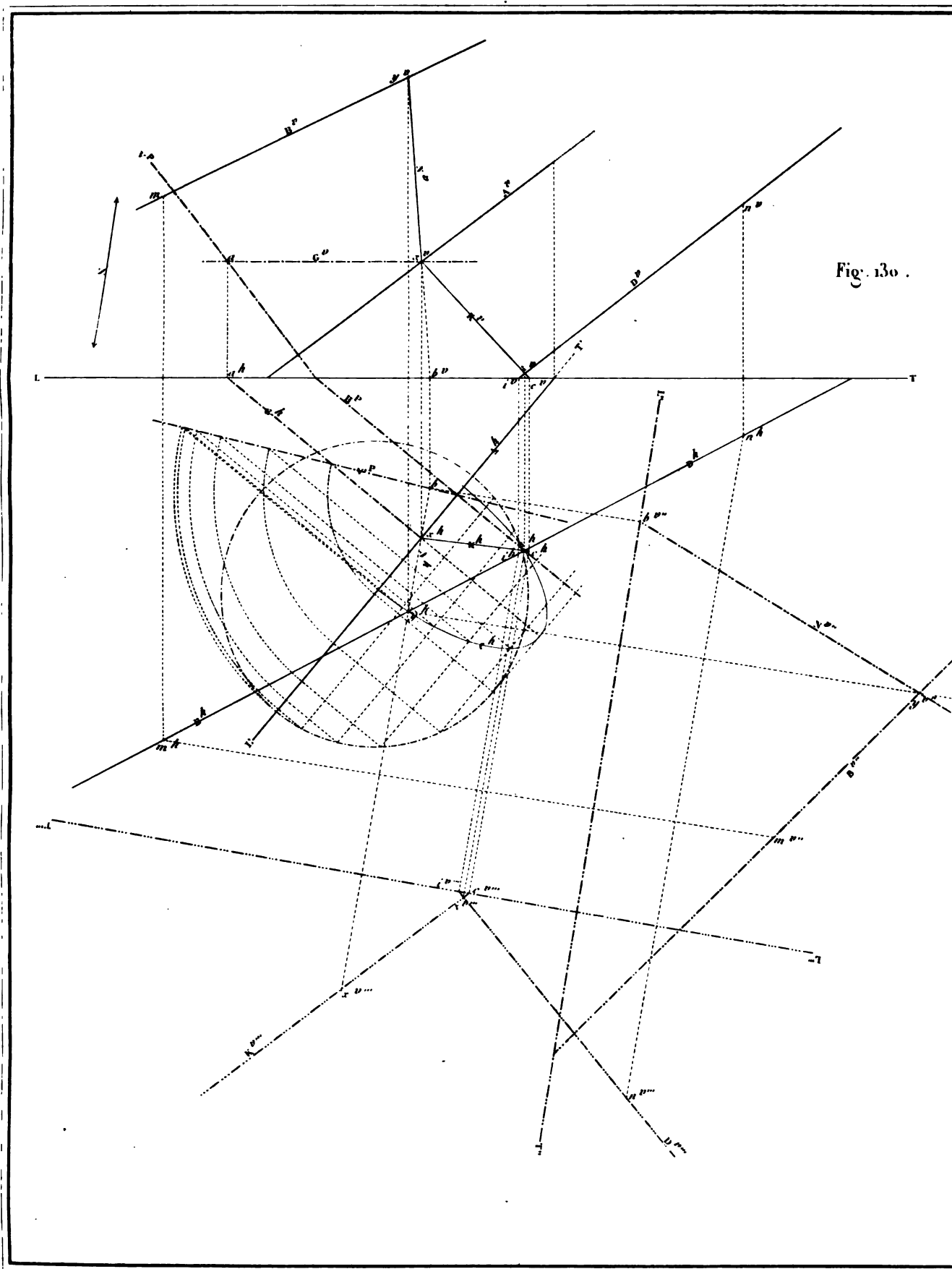




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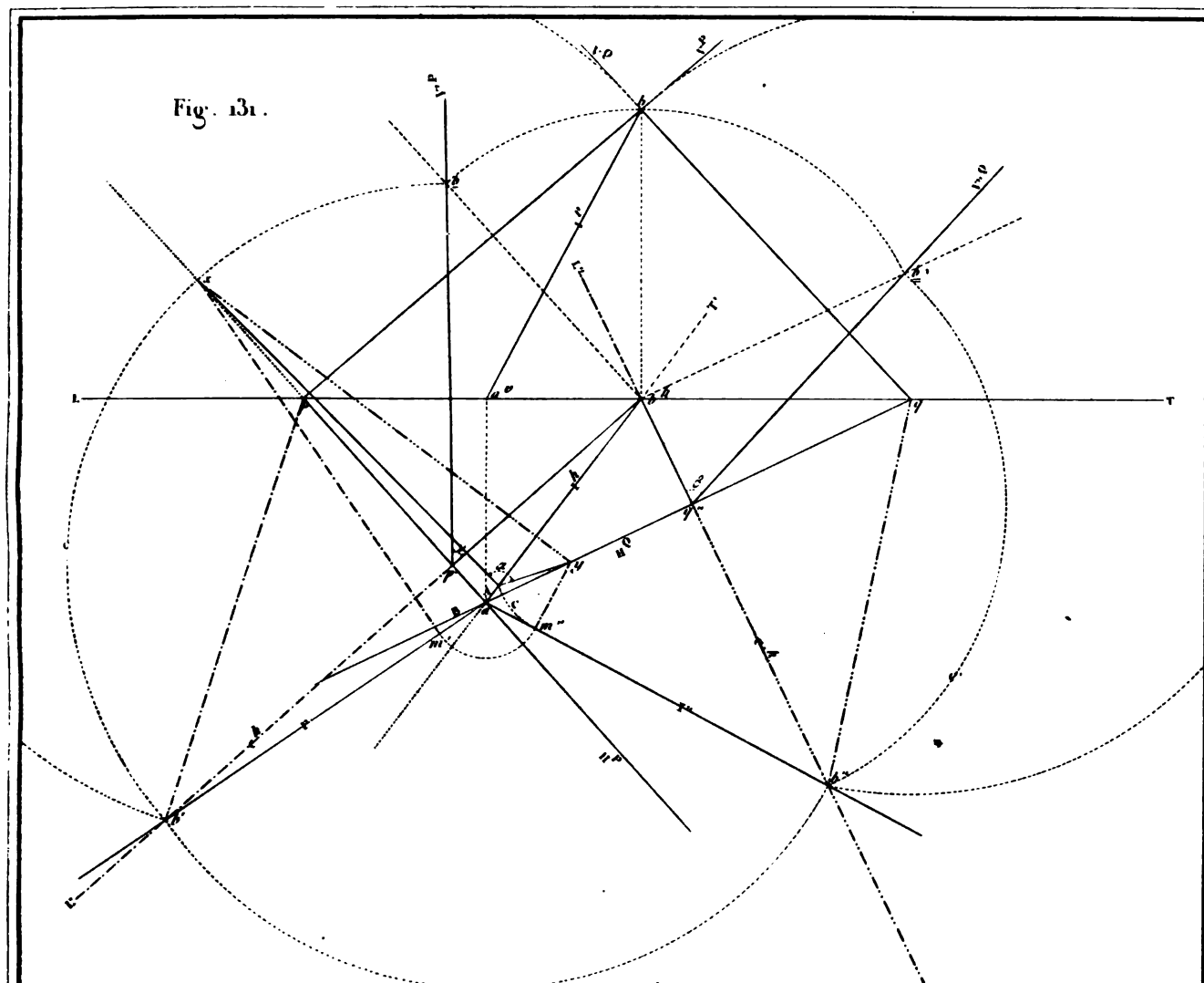


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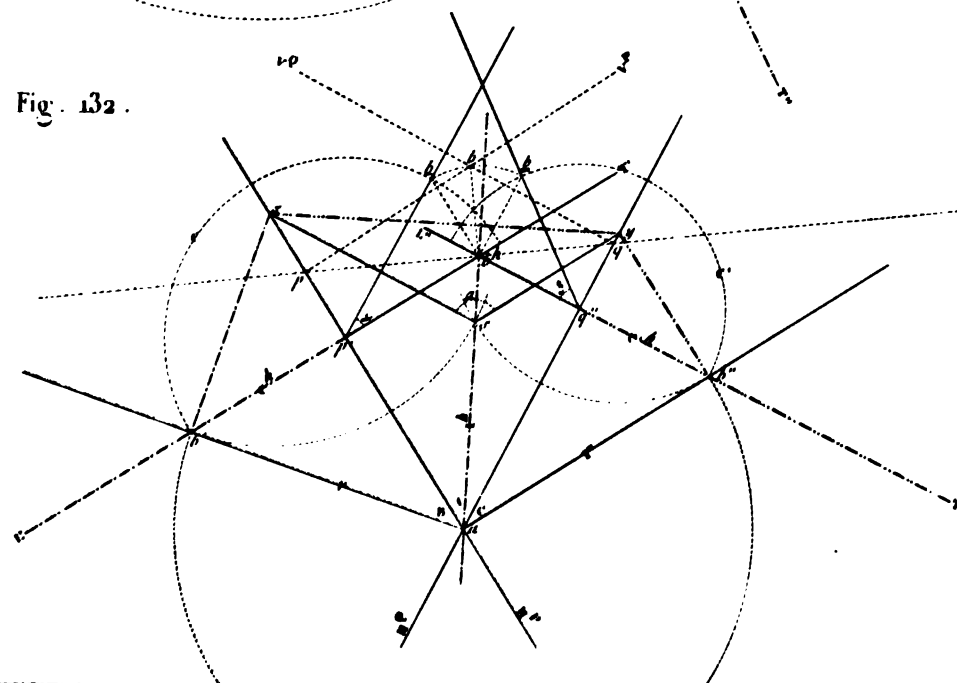




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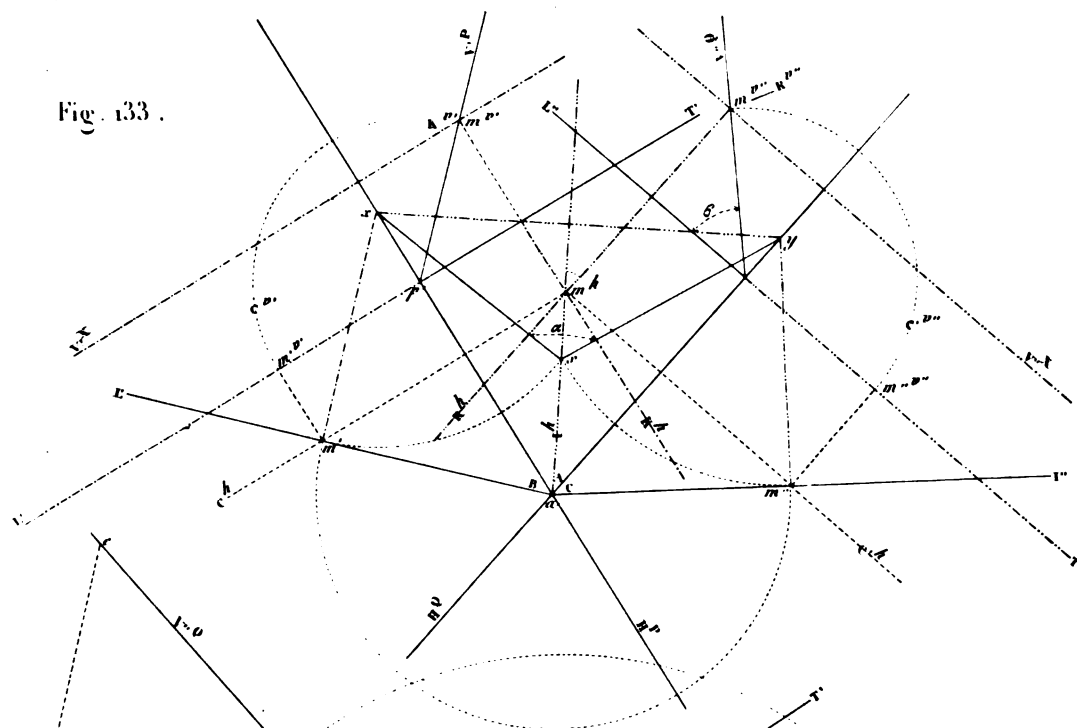
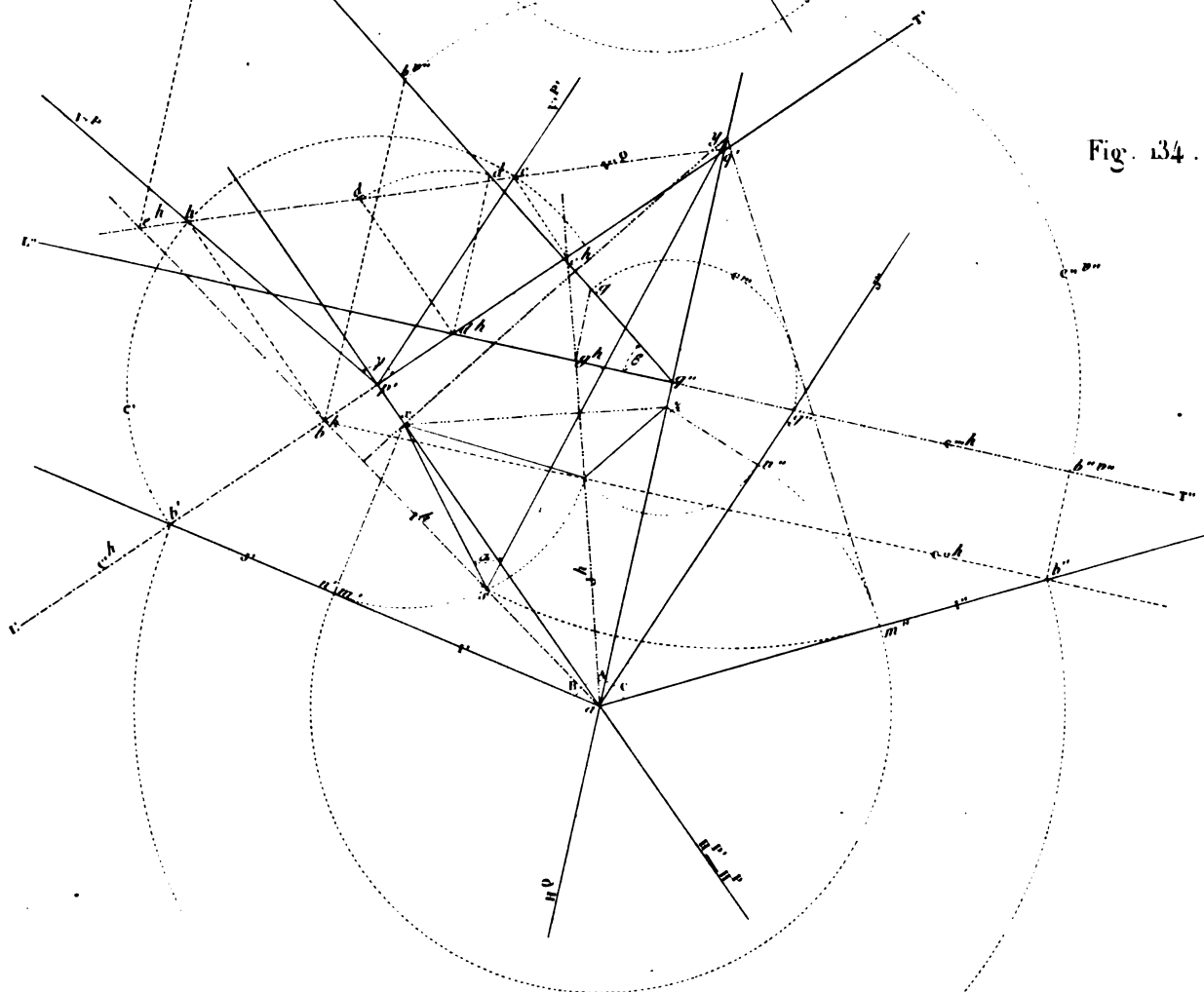


Fig. 134.



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Fig. 135.

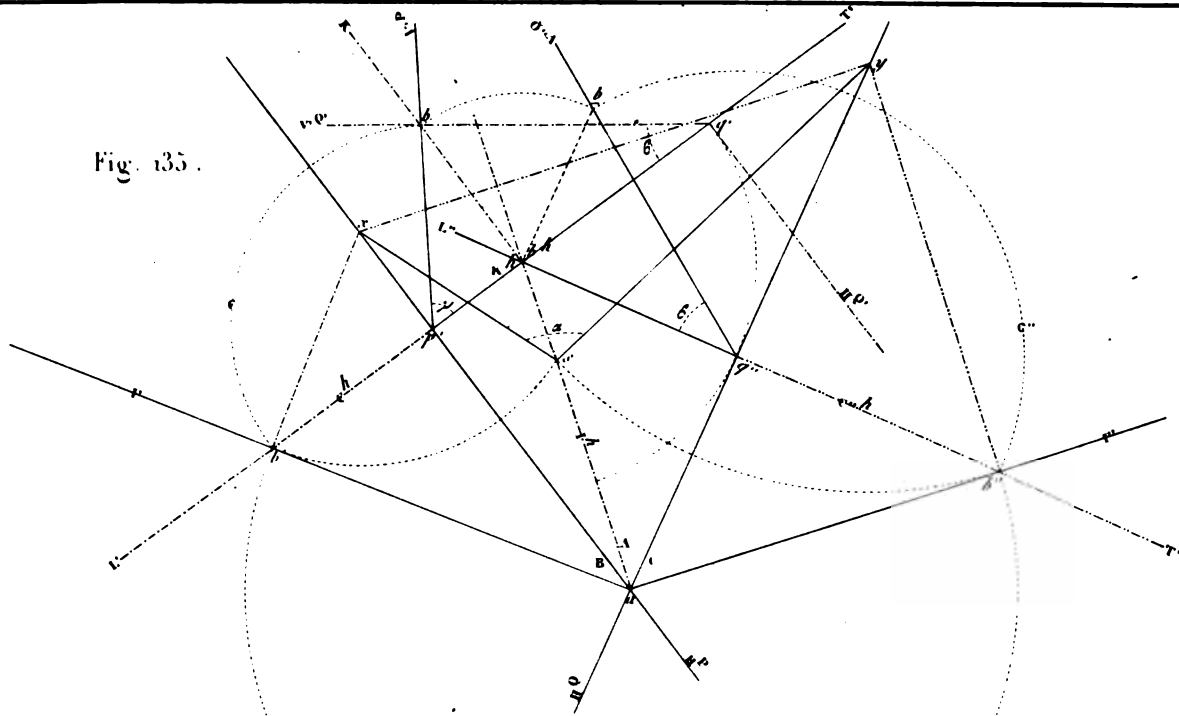


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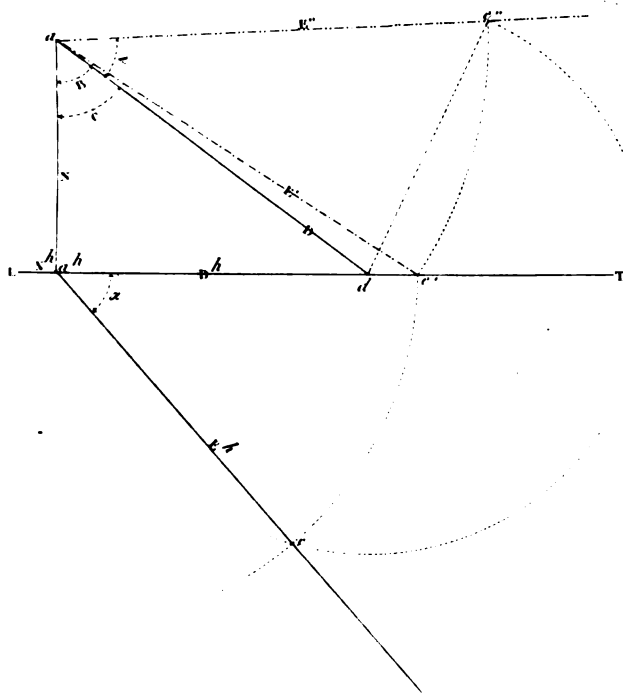
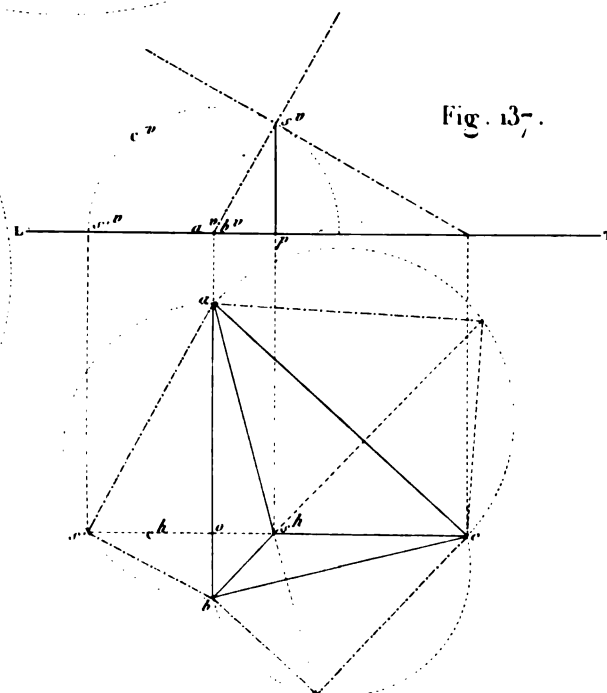
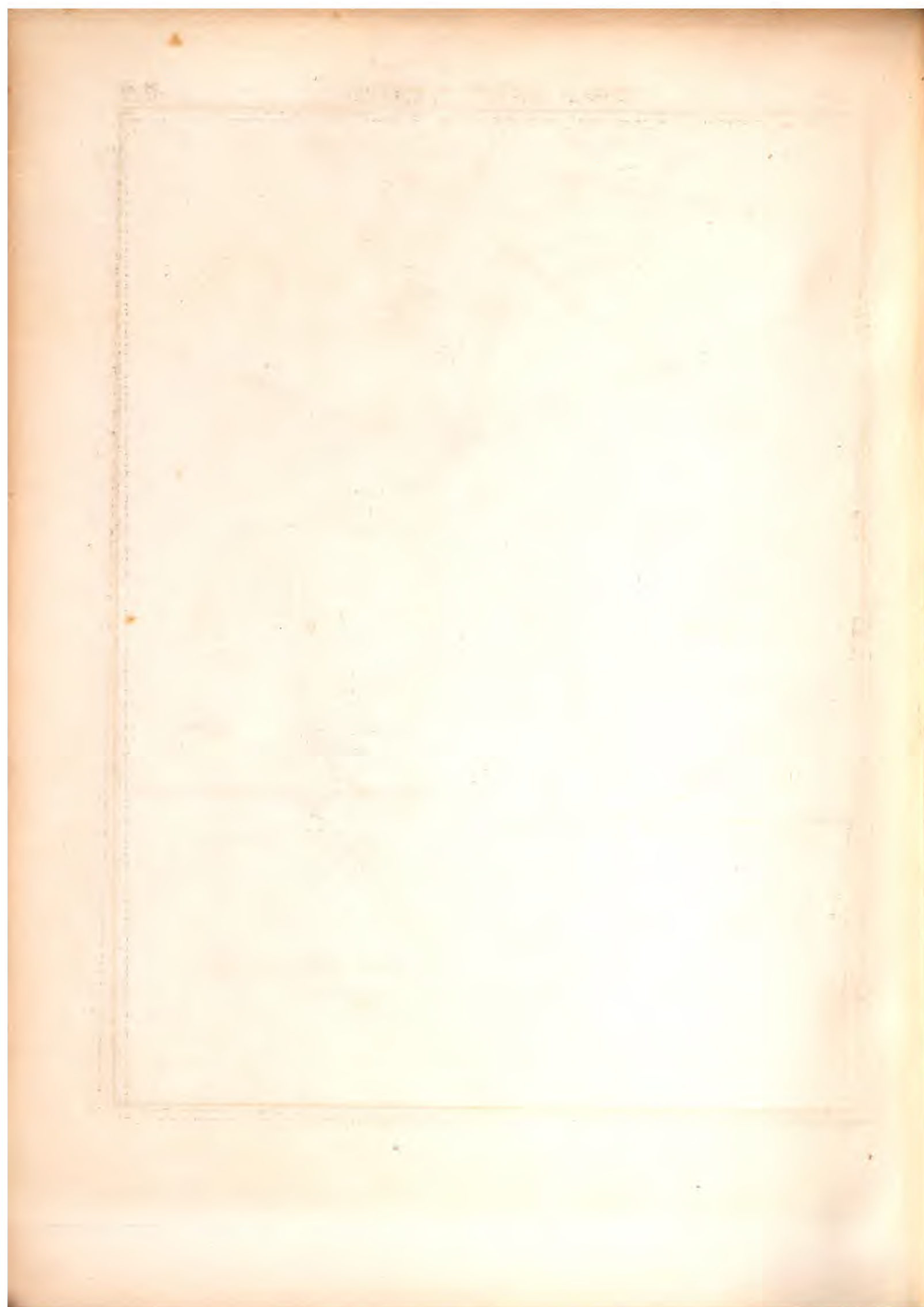


Fig. 137.





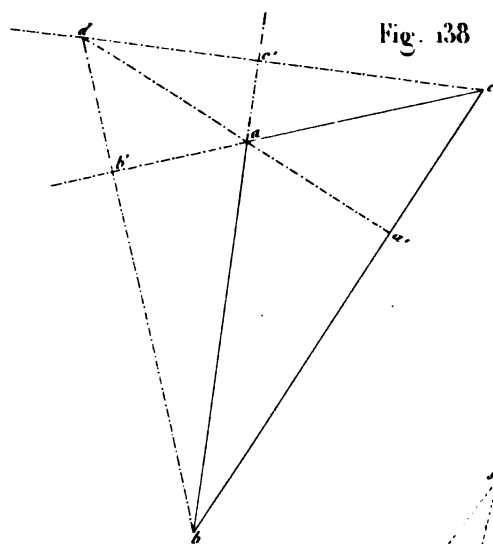


Fig. 138

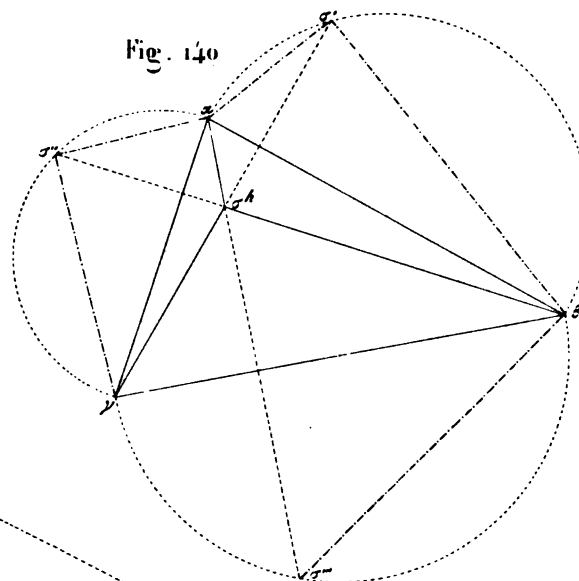


Fig. 140

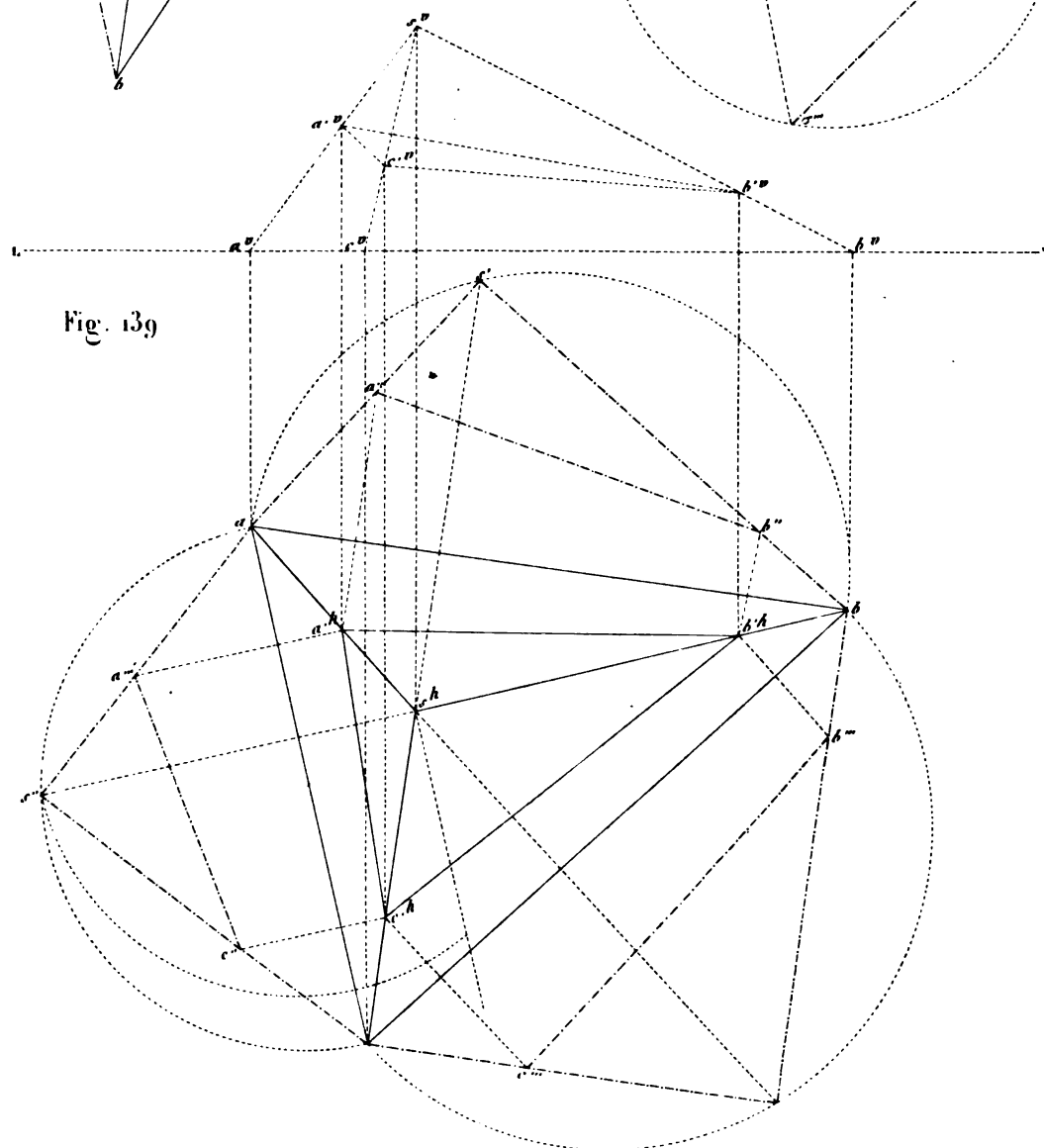


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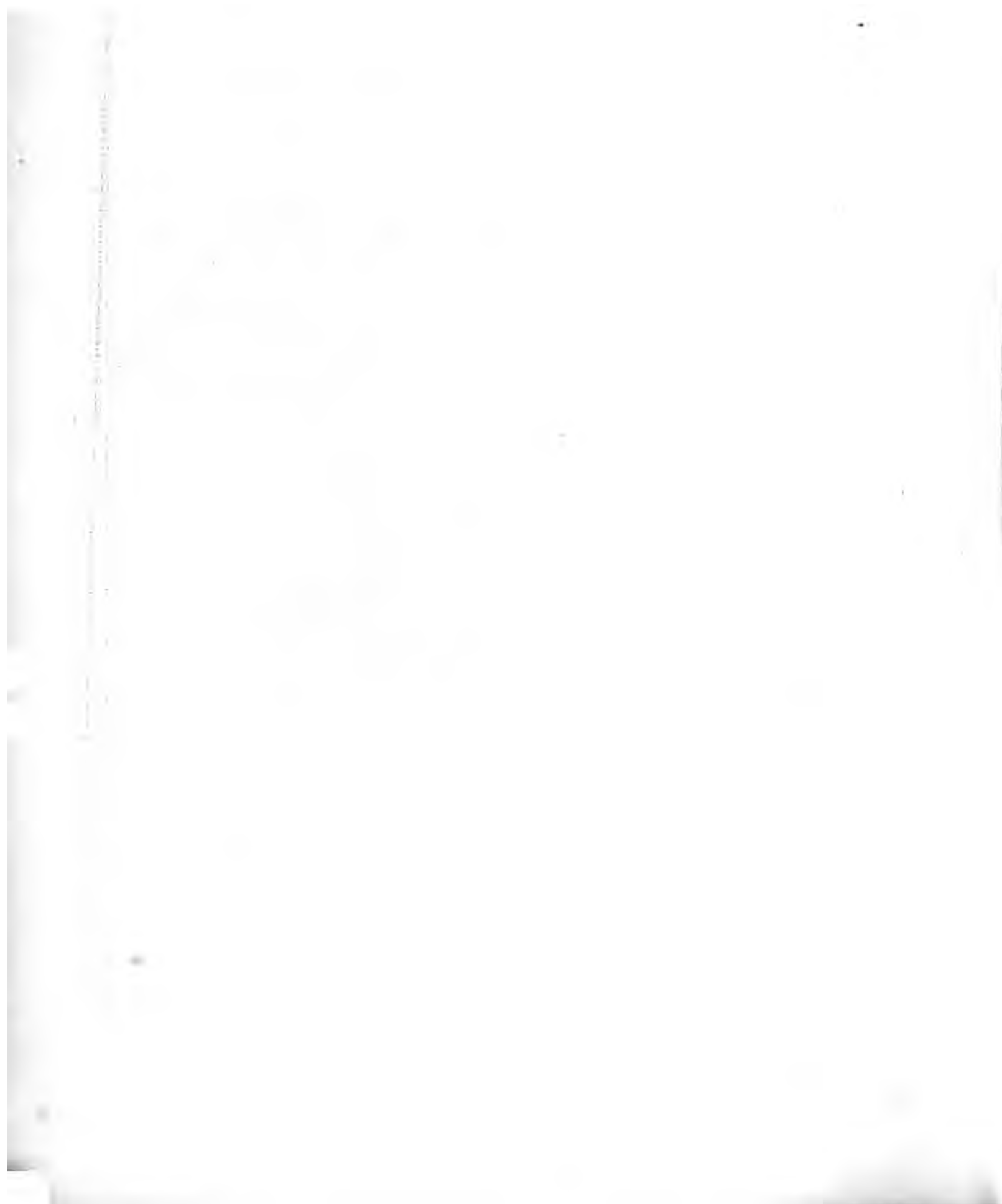


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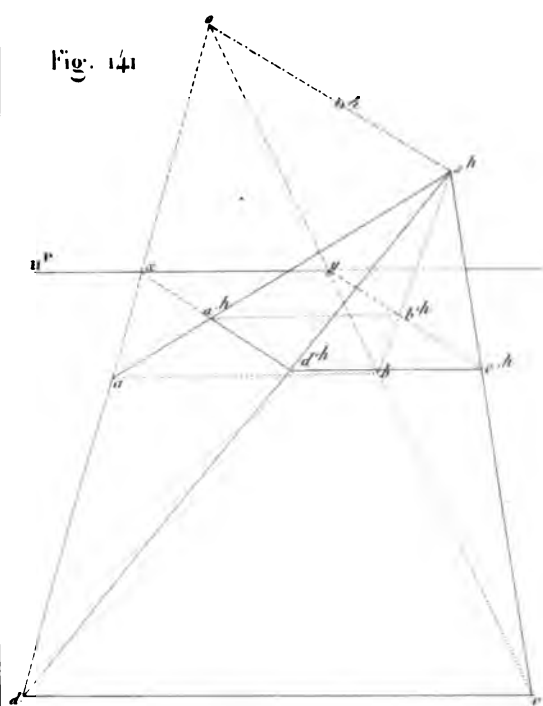


Fig. 142

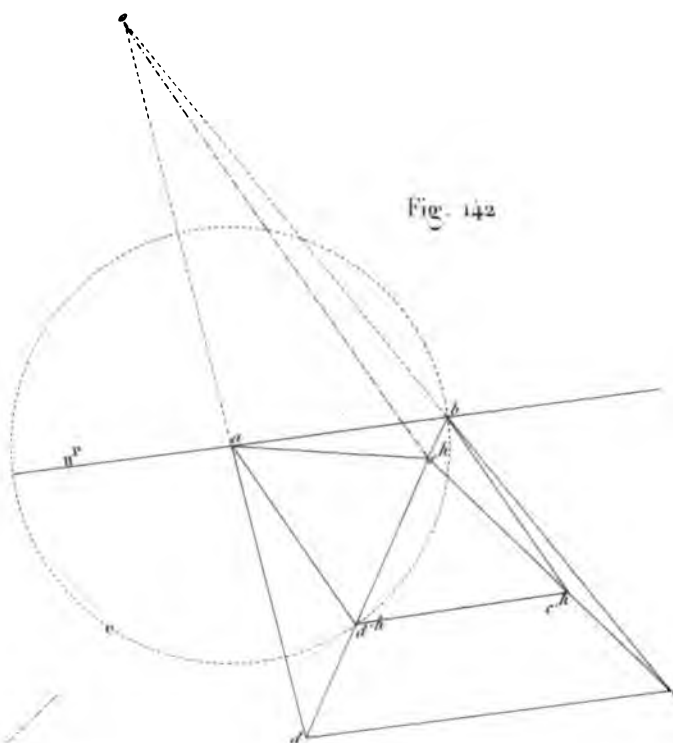
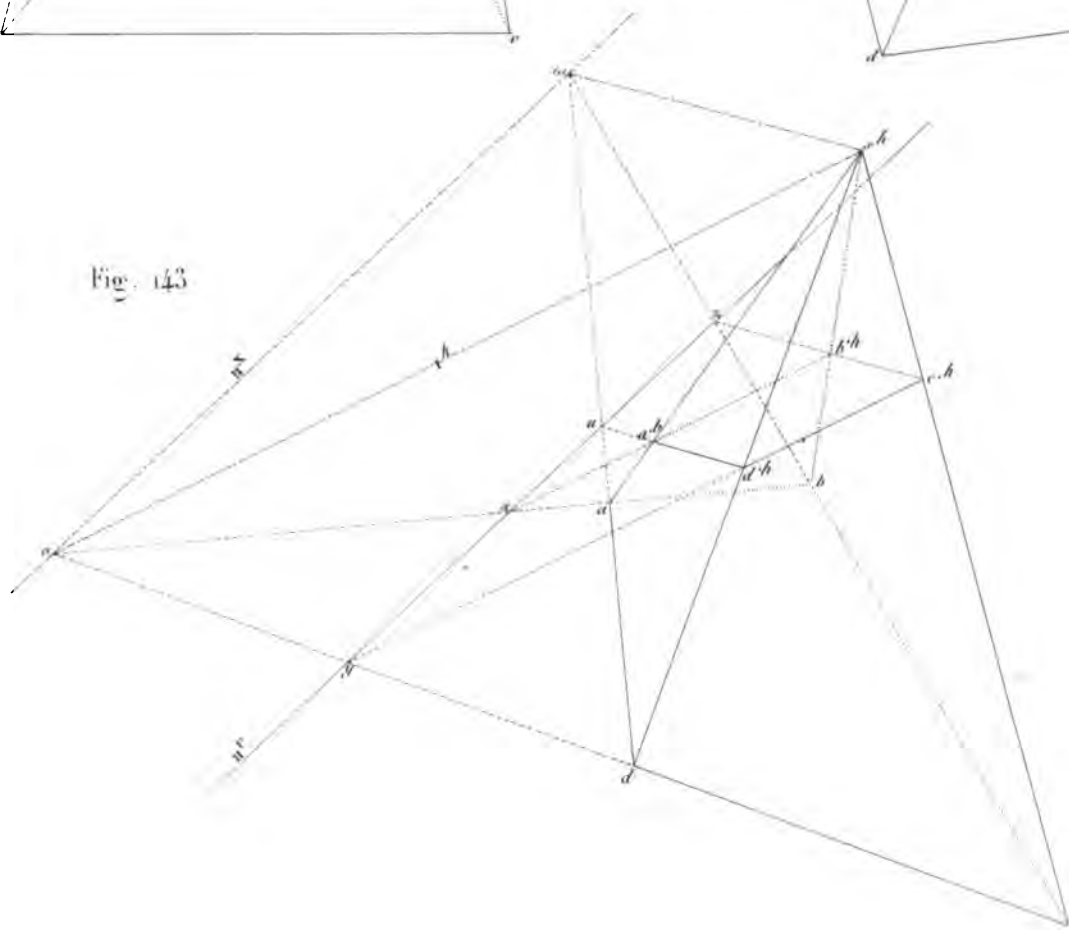


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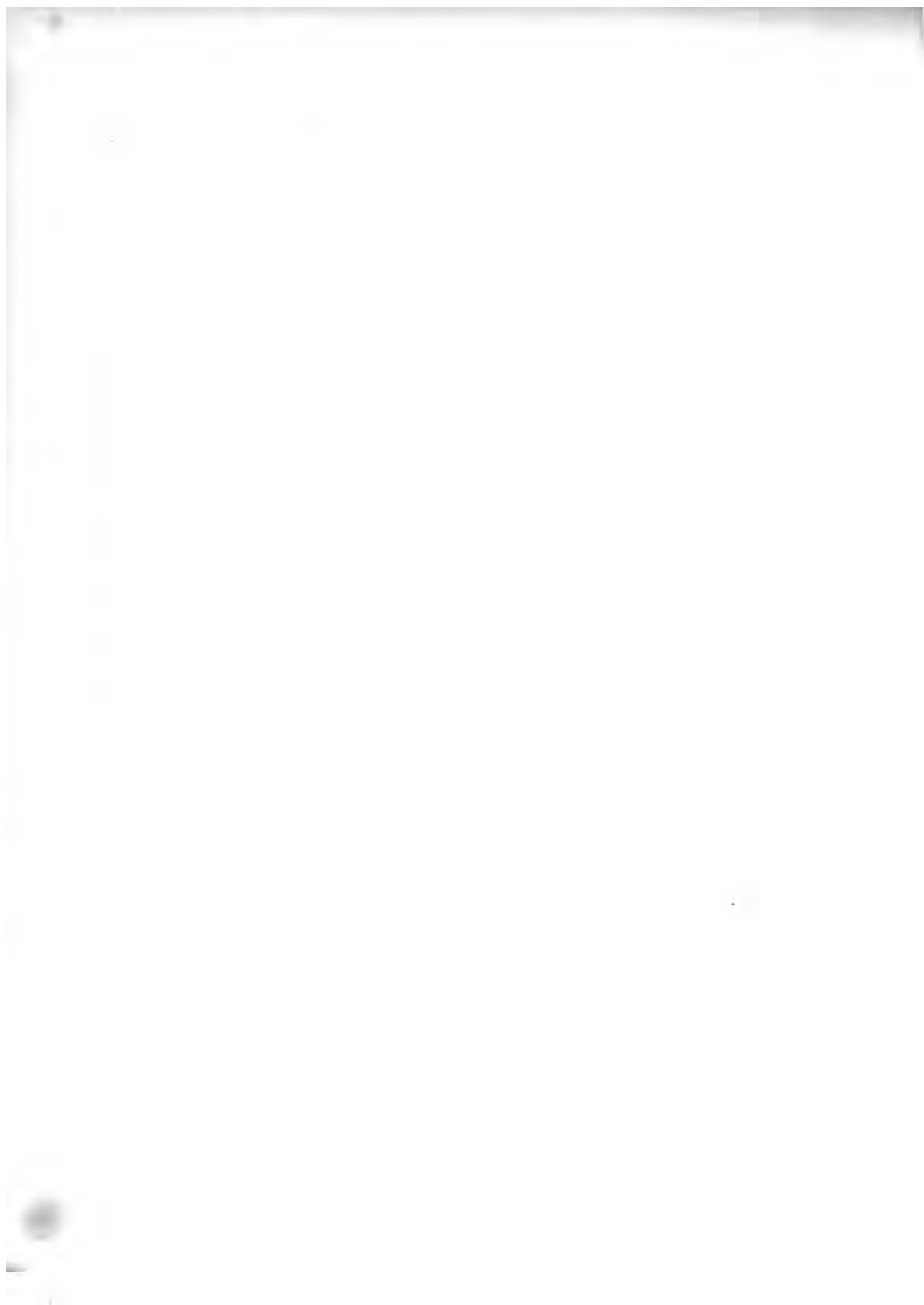


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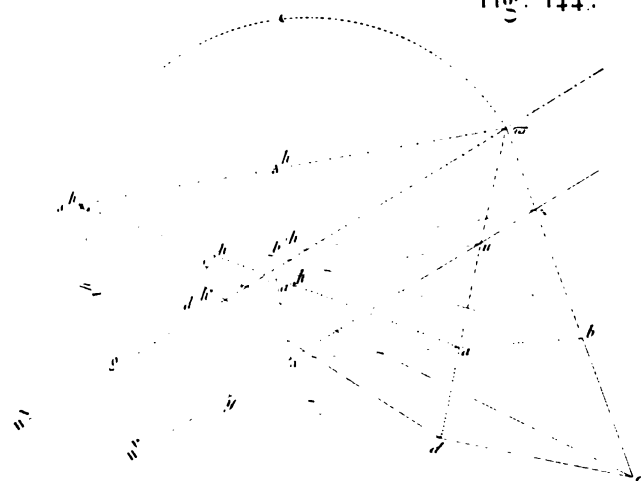


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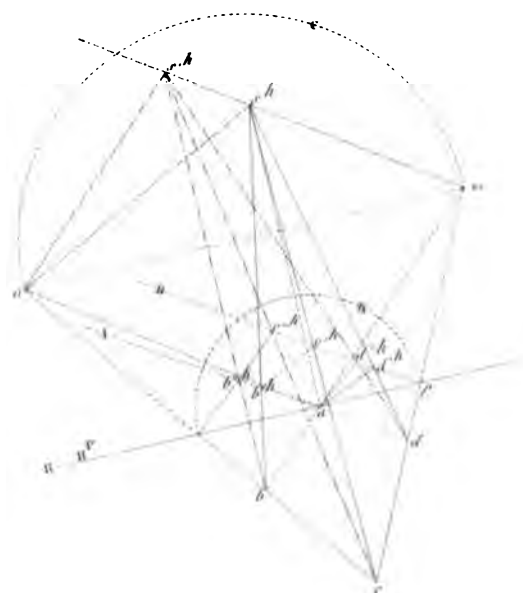


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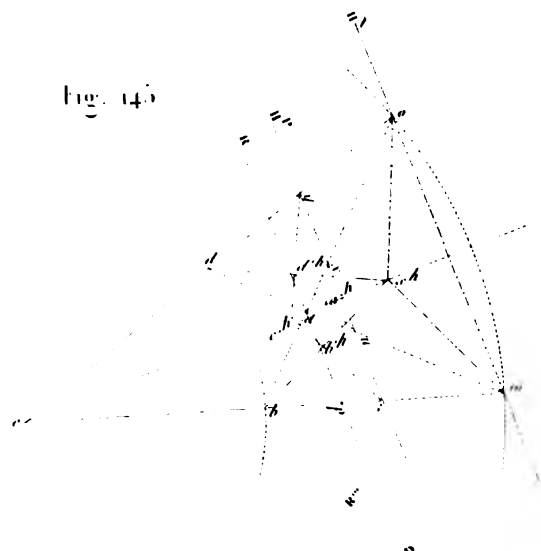


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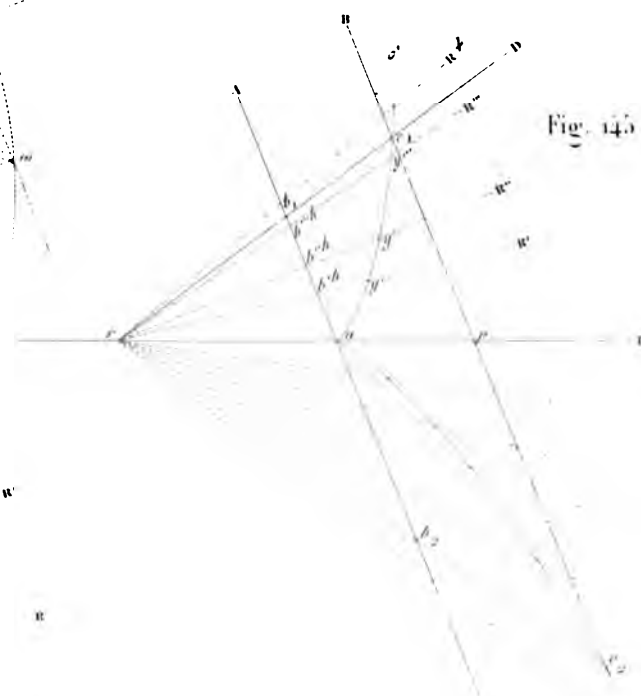
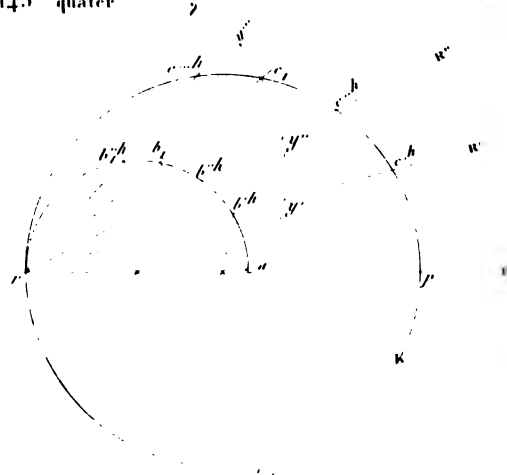
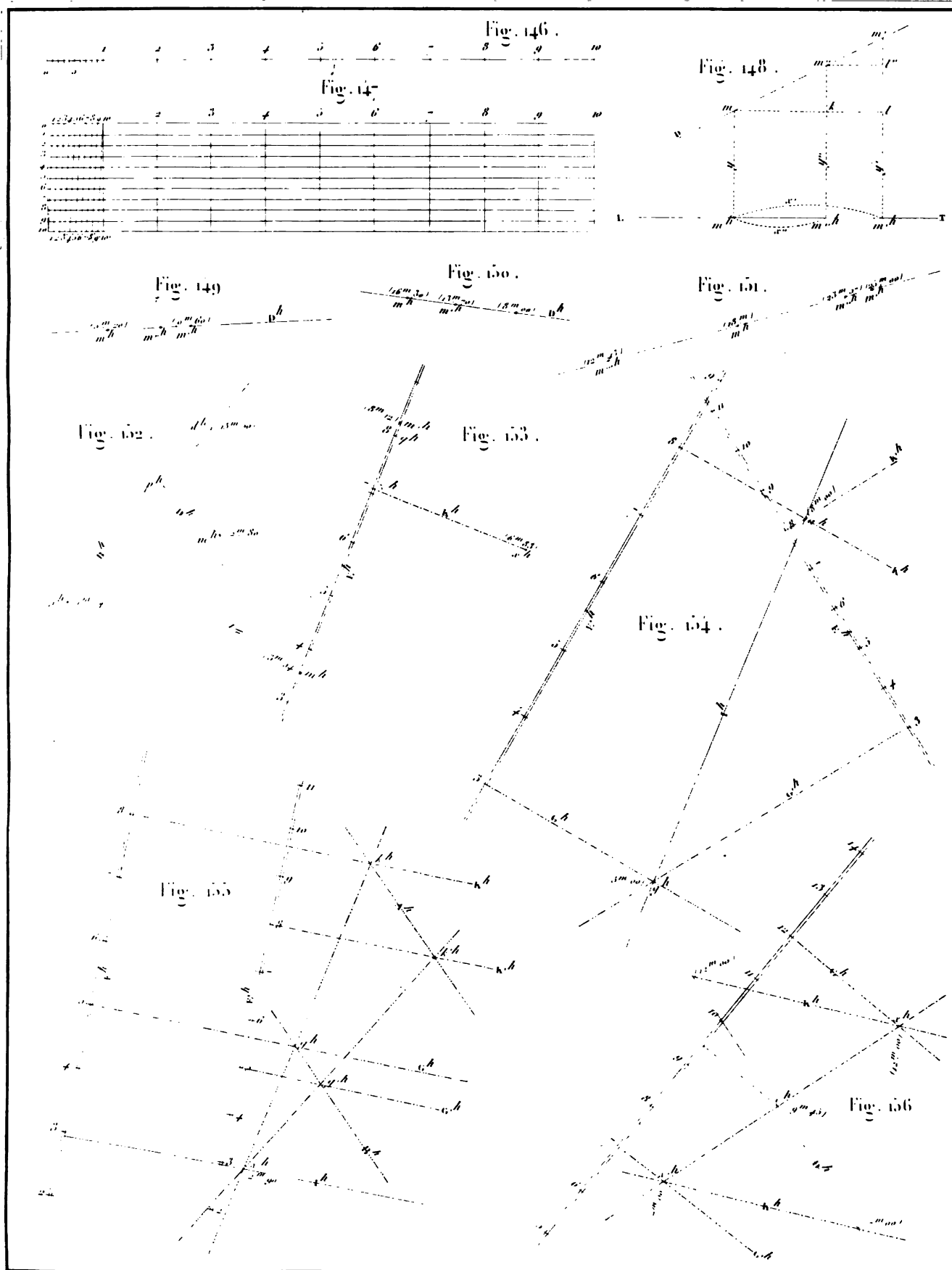


Fig. 145 quater









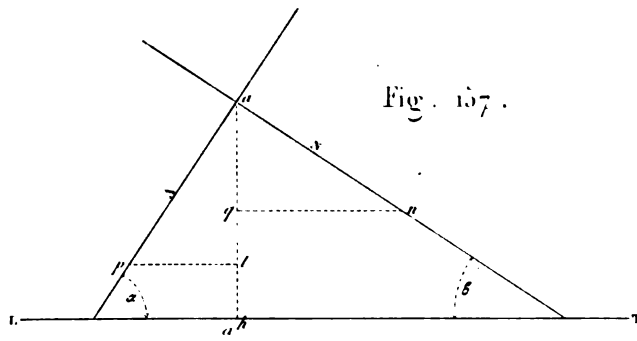


Fig. 157 .

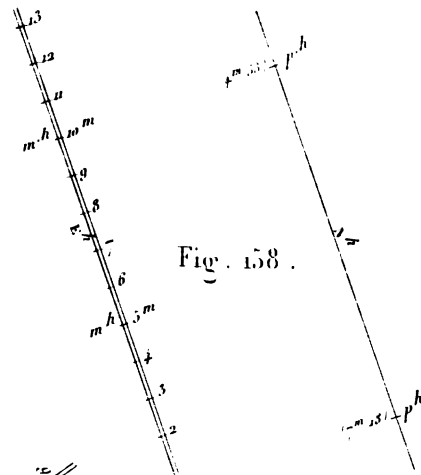


Fig. 158 .

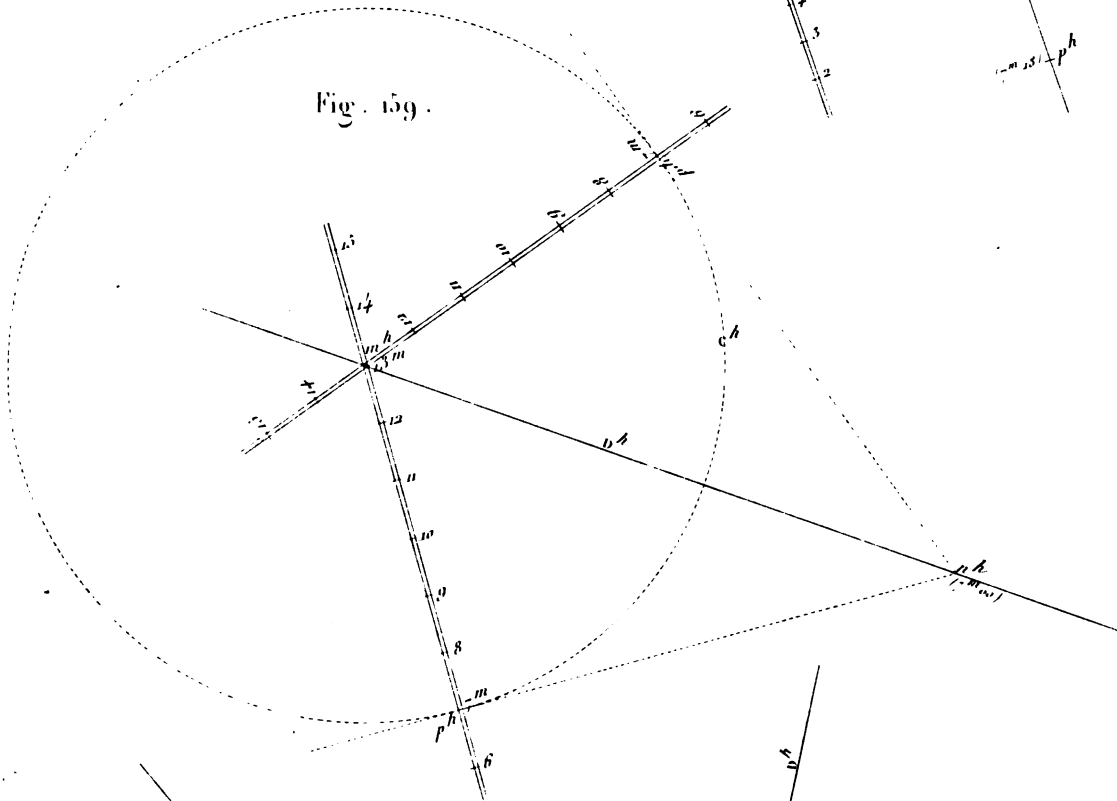


Fig. 159 .

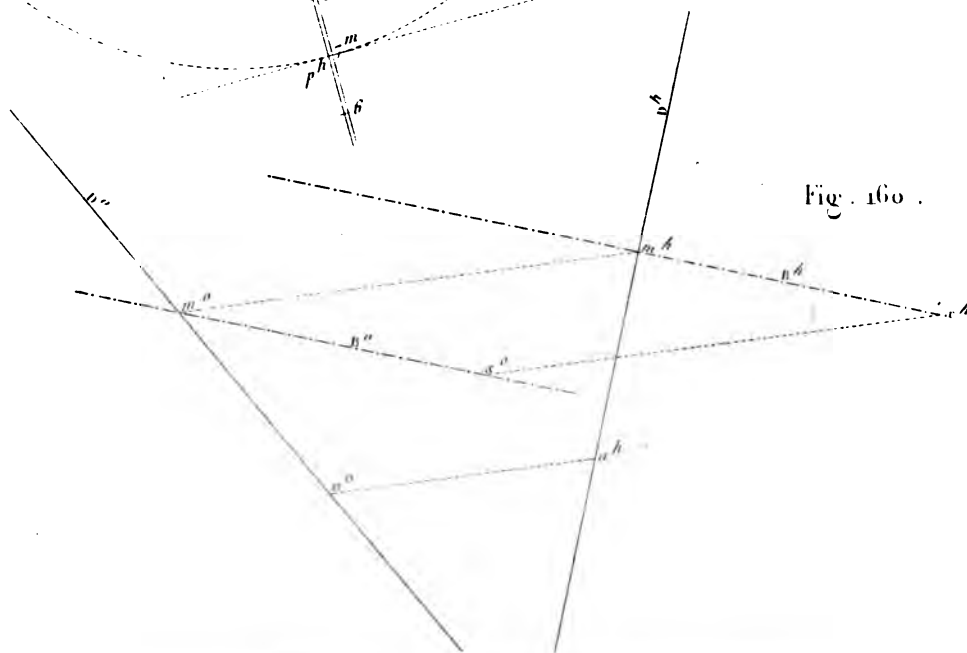
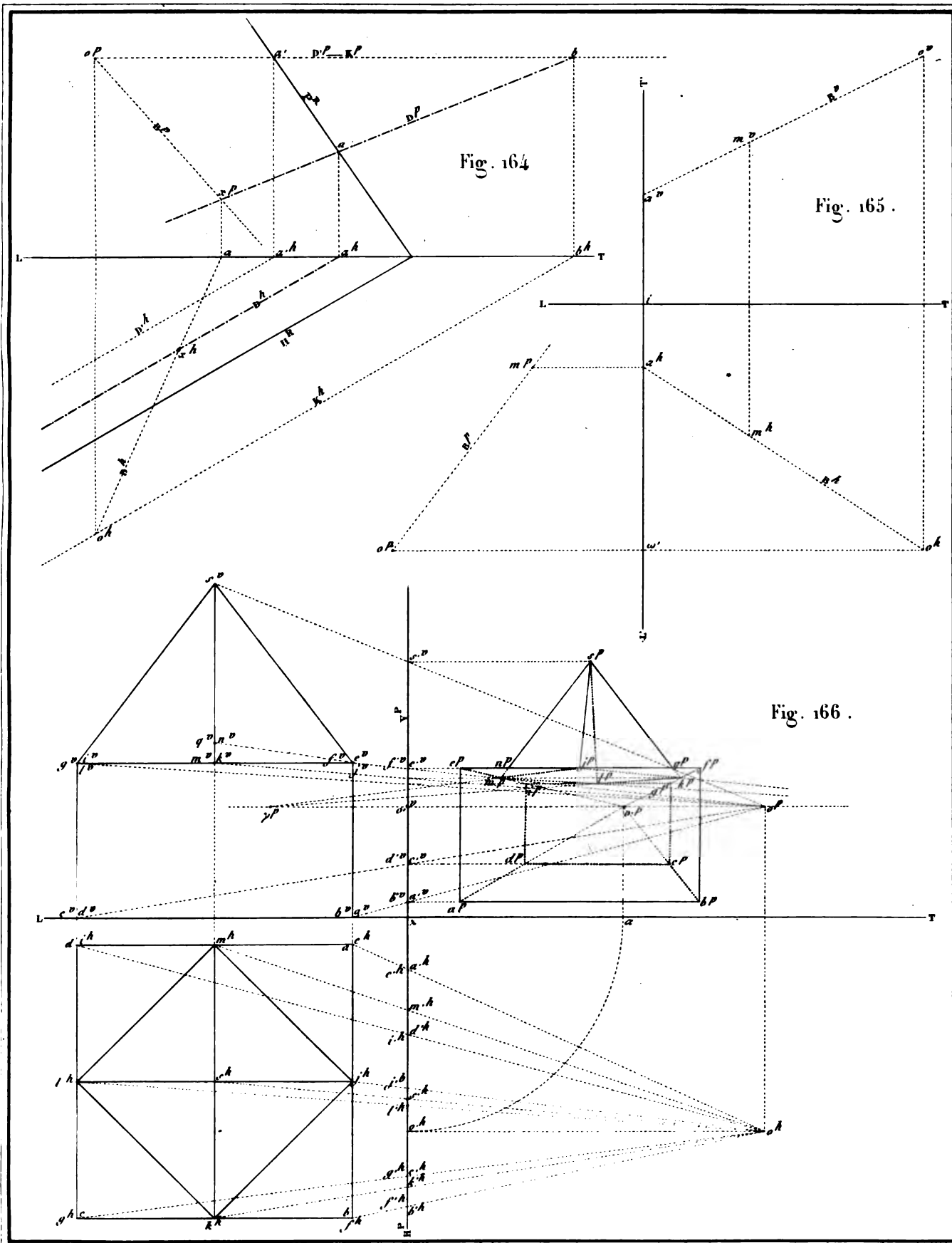


Fig. 160 .









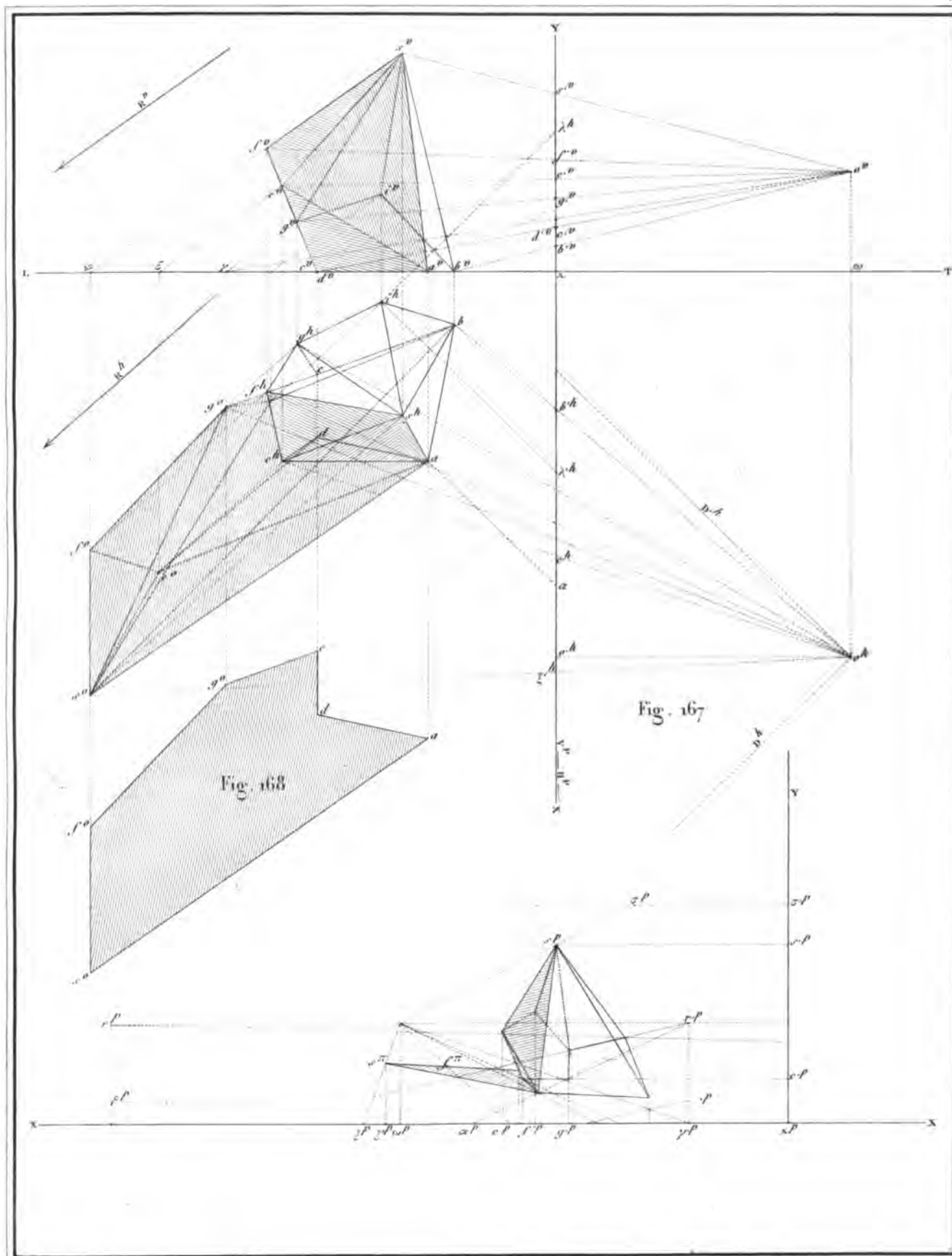
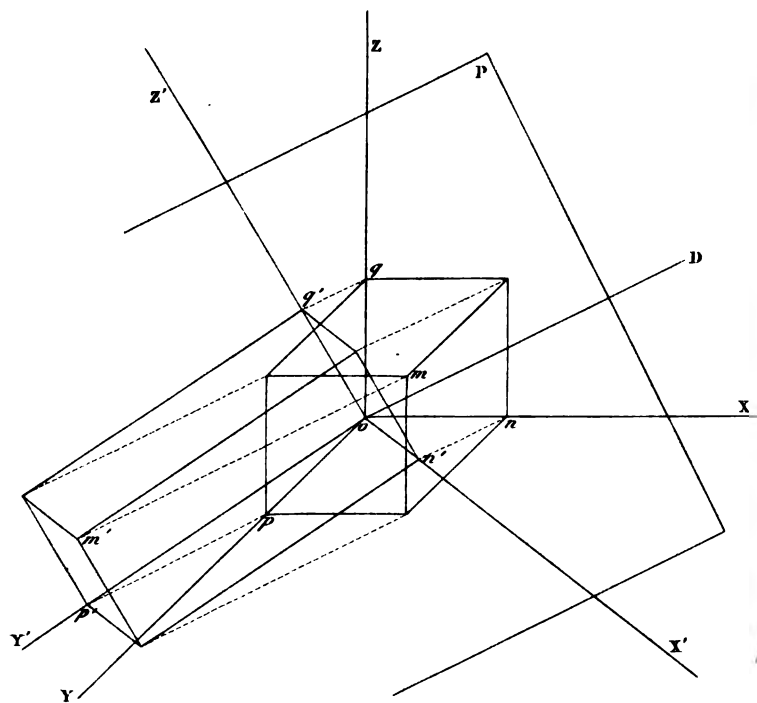
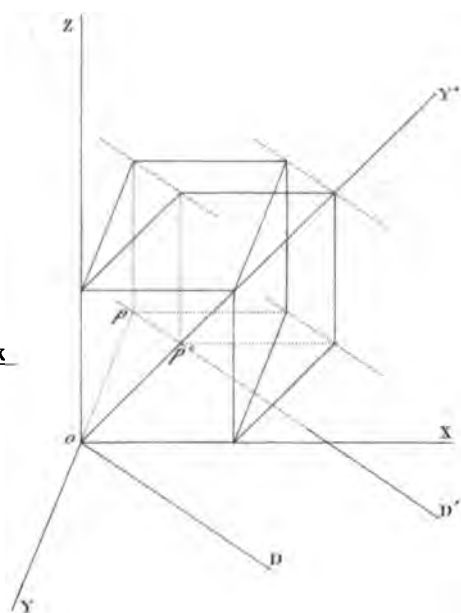
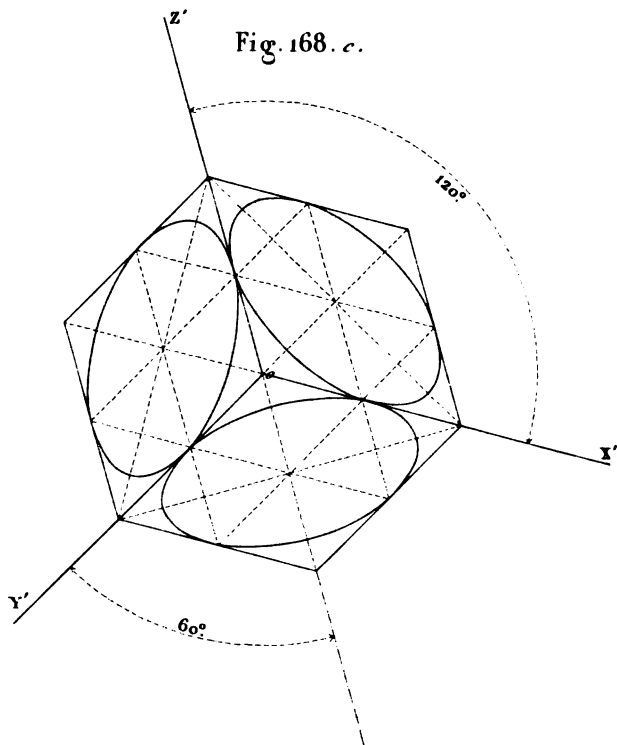
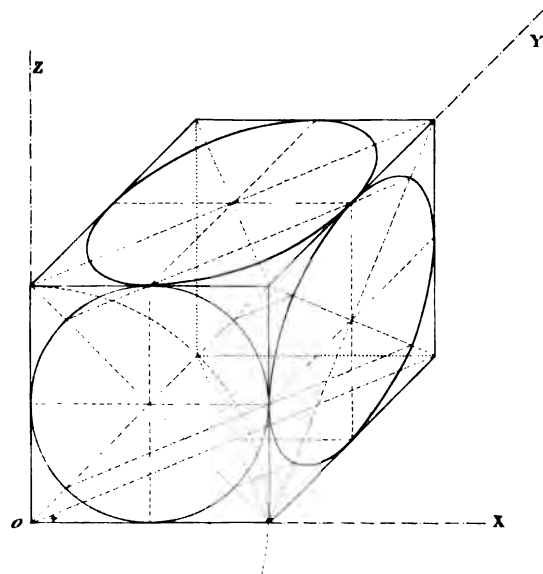




Fig. 168. *a*.Fig. 168. *b*.Fig. 168. *c*.Fig. 168. *d*.

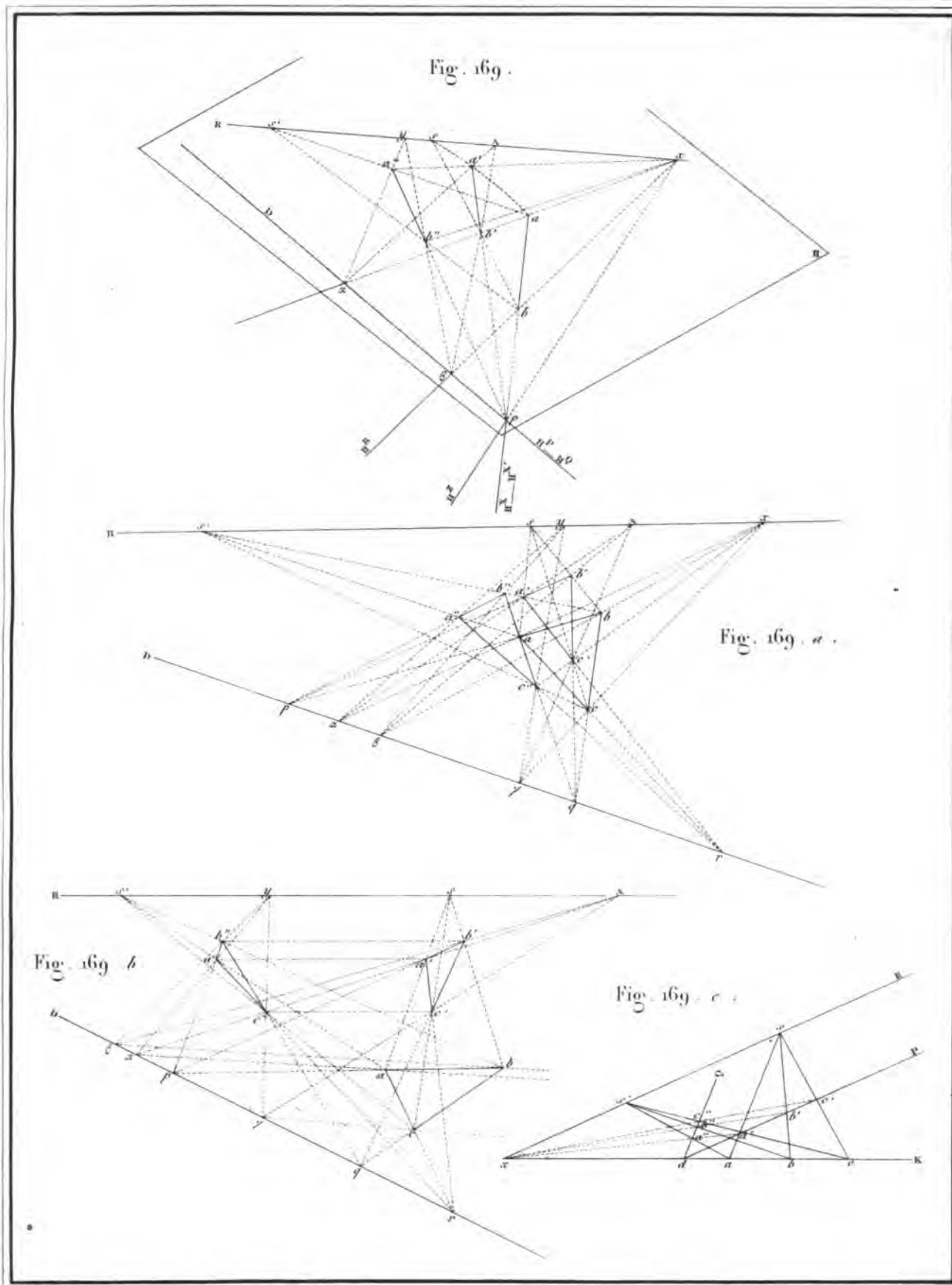
Dessiné par Théodore Olivier.

Gravé par Lemaitre.

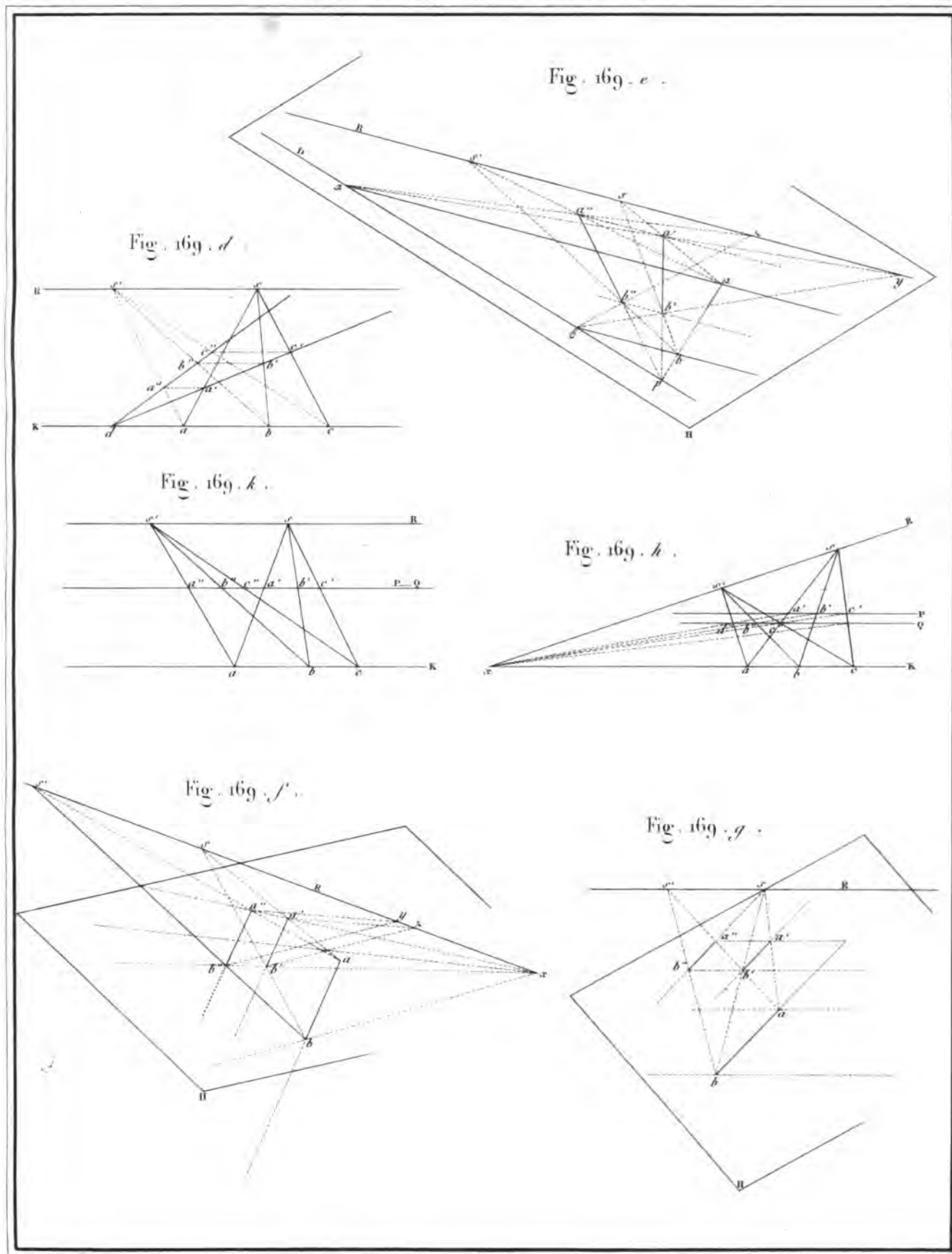
100

100

100









COURS
DE
GÉOMÉTRIE DESCRIPTIVE.

PARIS. — IMPRIMÉ PAR E. THUNOT ET C^e, RUE RACINE, 26, PRÈS DE L'ODÉON.

COURS DE GÉOMÉTRIE DESCRIPTIVE.

DEUXIÈME PARTIE.

DES COURBES ET DES SURFACES COURBES

ET EN PARTICULIER

DES SECTIONS CONIQUES ET DES SURFACES DU SECOND ORDRE.

DEUXIÈME ÉDITION,
REVUE ET AUGMENTÉE.

PAR M. THÉODORE OLIVIER,

Ancien élève de l'École polytechnique et ancien Officier d'artillerie; Docteur ès sciences de la Faculté de Paris;
Ancien professeur adjoint de l'École d'application de l'artillerie et du génie à Metz;
Ancien répétiteur à l'École polytechnique; Professeur-Administrateur du Conservatoire impérial des arts et métiers;
Professeur-fondateur de l'École centrale des arts et manufactures;
Membre honoraire de la Société philomathique de Paris et du comité des arts mécaniques de la Société d'encouragement pour l'industrie nationale;
Membre étranger des deux Académies royales des sciences et des sciences militaires de Stockholm;
Membre correspondant de la Société royale des sciences de Liège et de la Société impériale d'agriculture et arts utiles de Lyon,
des Académies des sciences de Metz, Dijon et Lyon;
Officier de l'ordre impérial de la Légion d'honneur et Chevalier de l'Ordre royal de l'Étoile polaire de Suède.

ATLAS.

PARIS.

CARILIAN-GOËURY ET V^o DALMONT,
LIBRAIRES DES CORPS IMPÉRIAUX DES PONTS ET CHAUSSÉES ET DES MINES,
Quai des Augustins, N^o 49.

1854.

Fig. 170

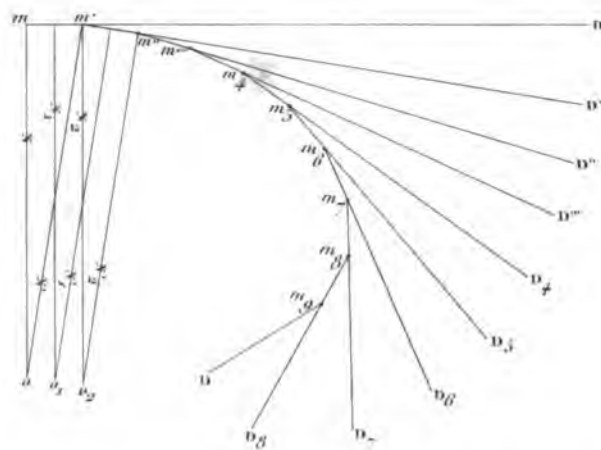


Fig. 171

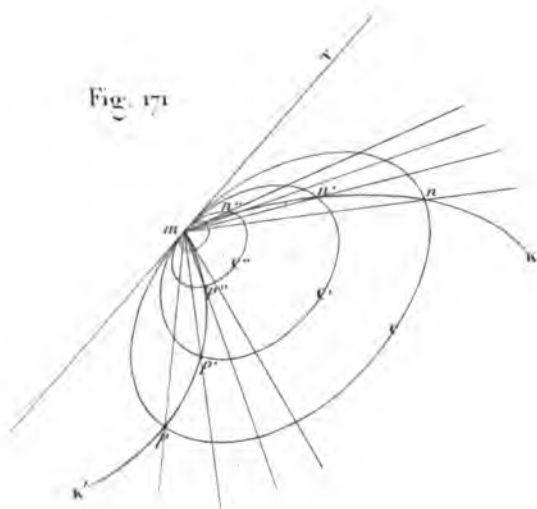


Fig. 172

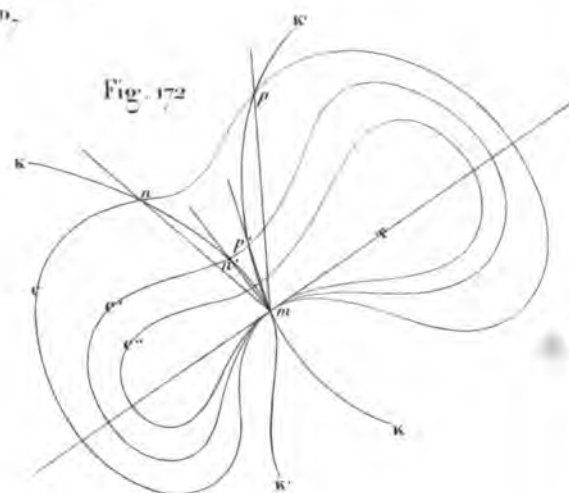


Fig. 173

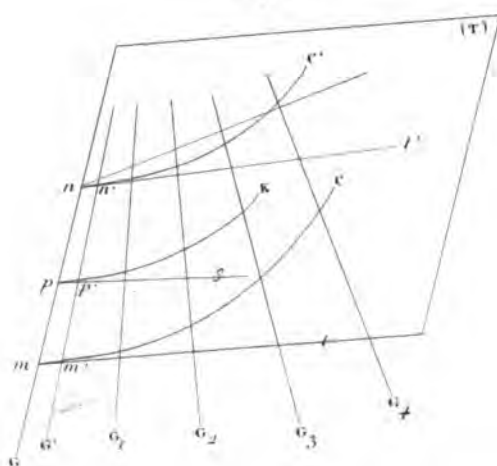
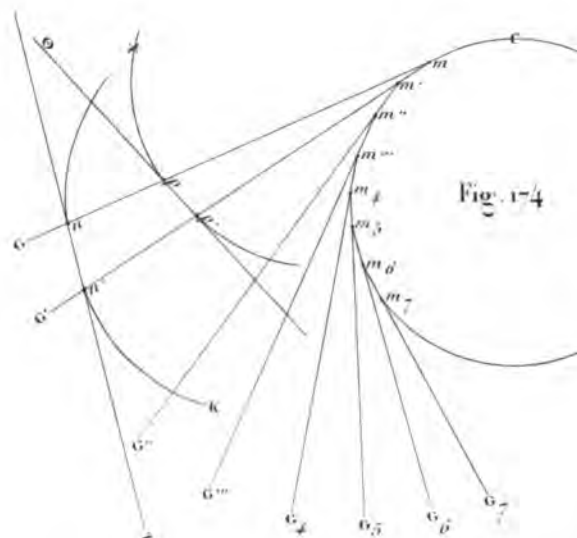
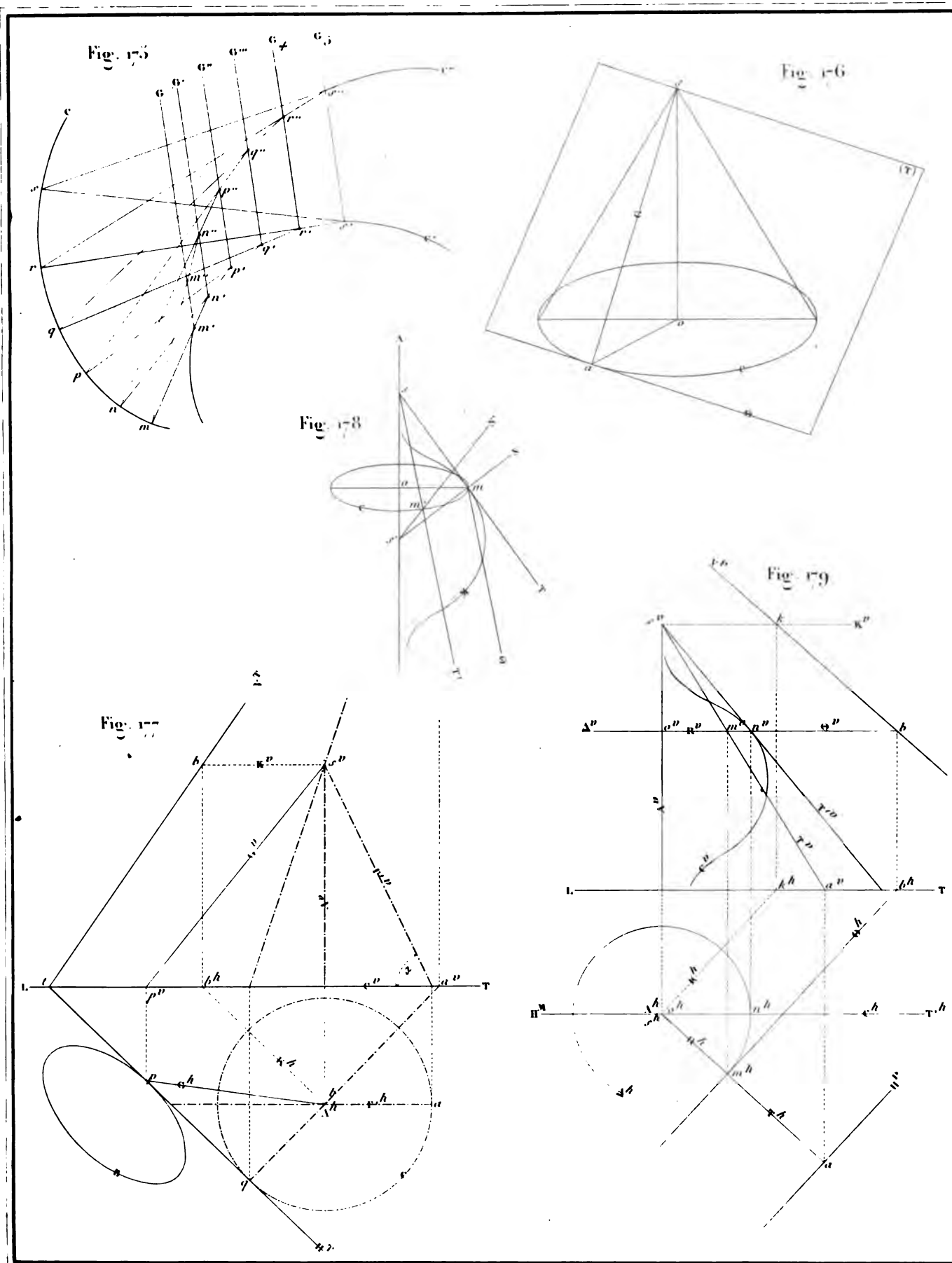


Fig. 174



[The following text is extremely faint and largely illegible. It appears to be a list or a series of entries, possibly related to a historical document or a scientific record. The text is organized into columns and rows, but the specific details are too blurry to transcribe accurately.]





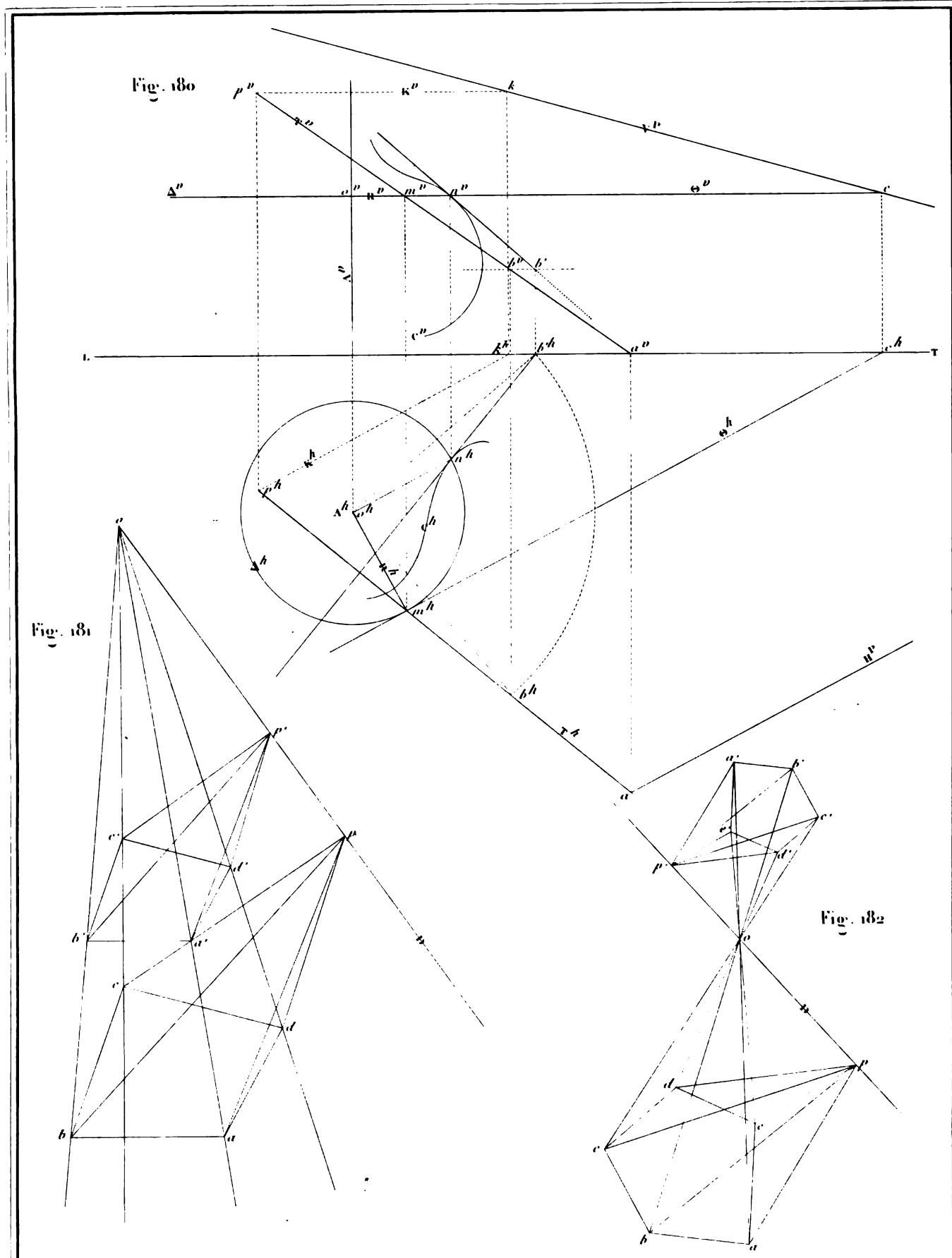




Fig. 183

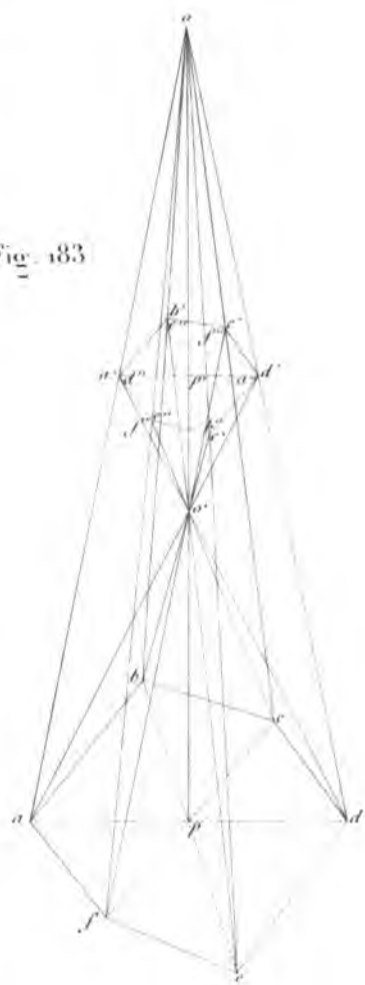


Fig. 184

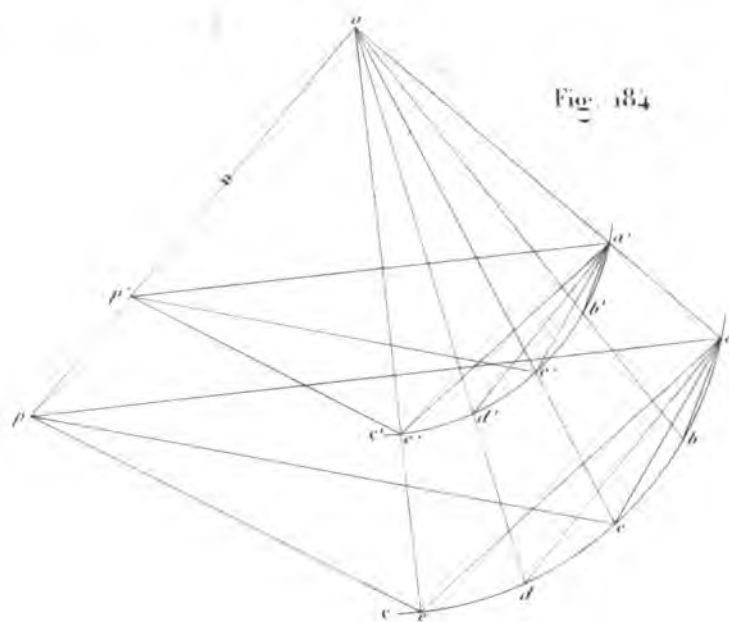


Fig. 186

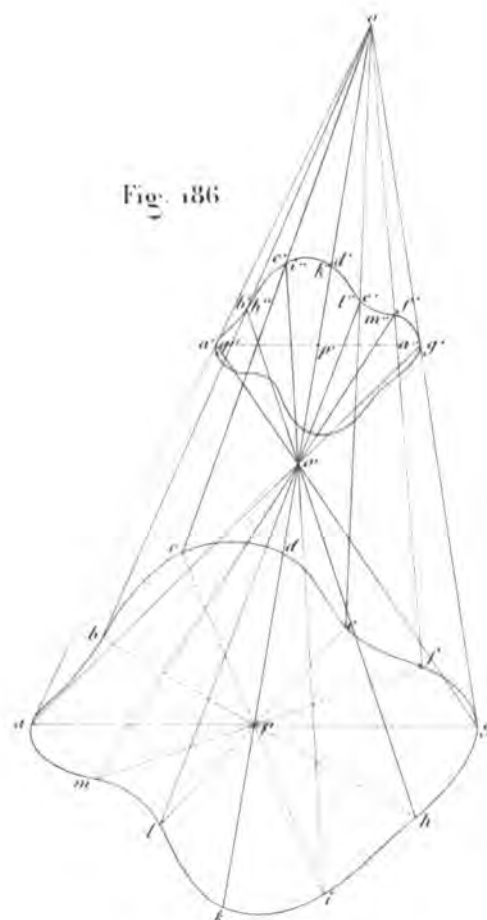
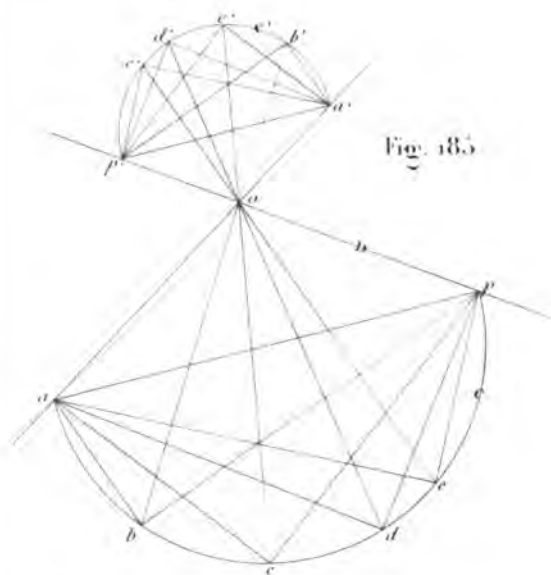
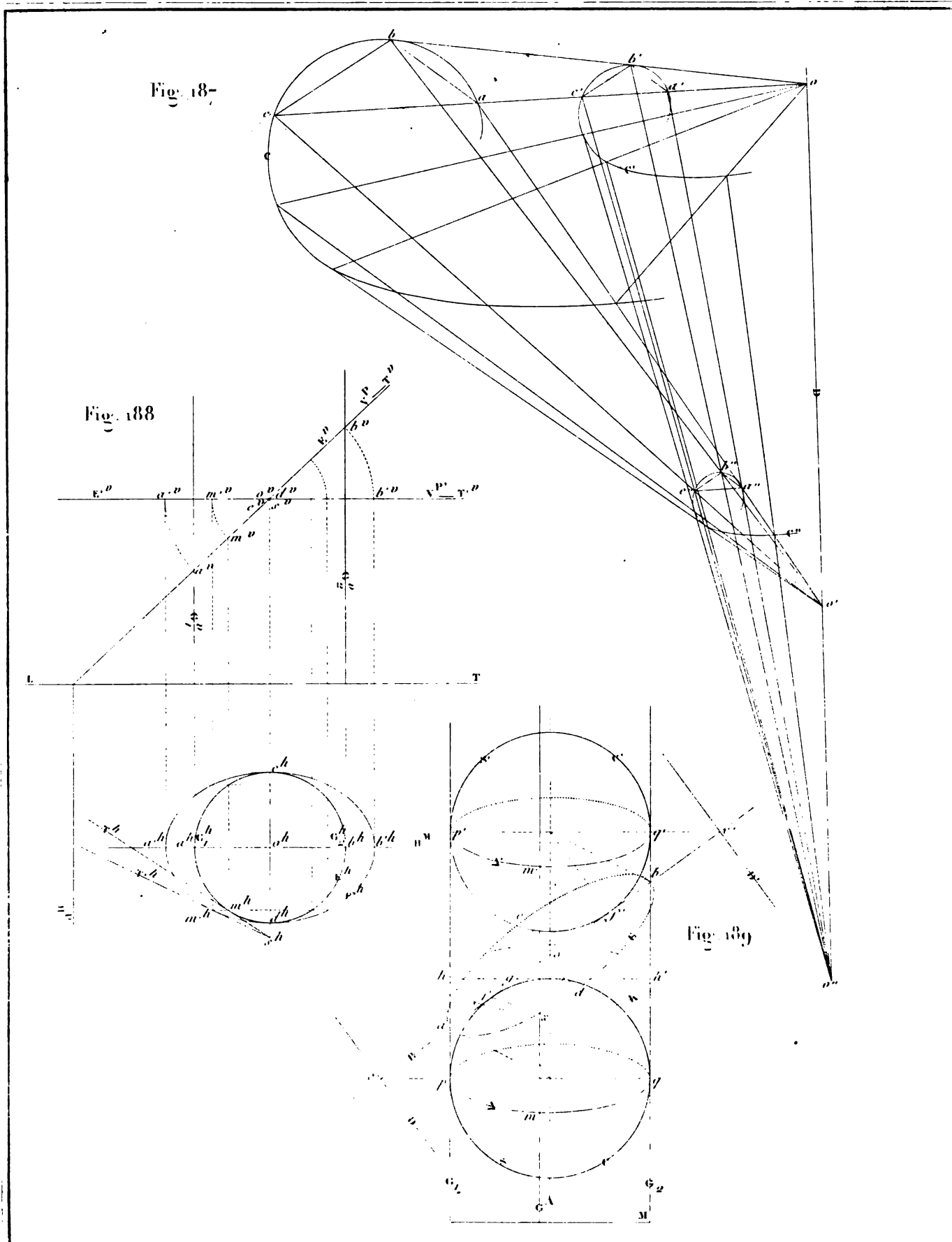
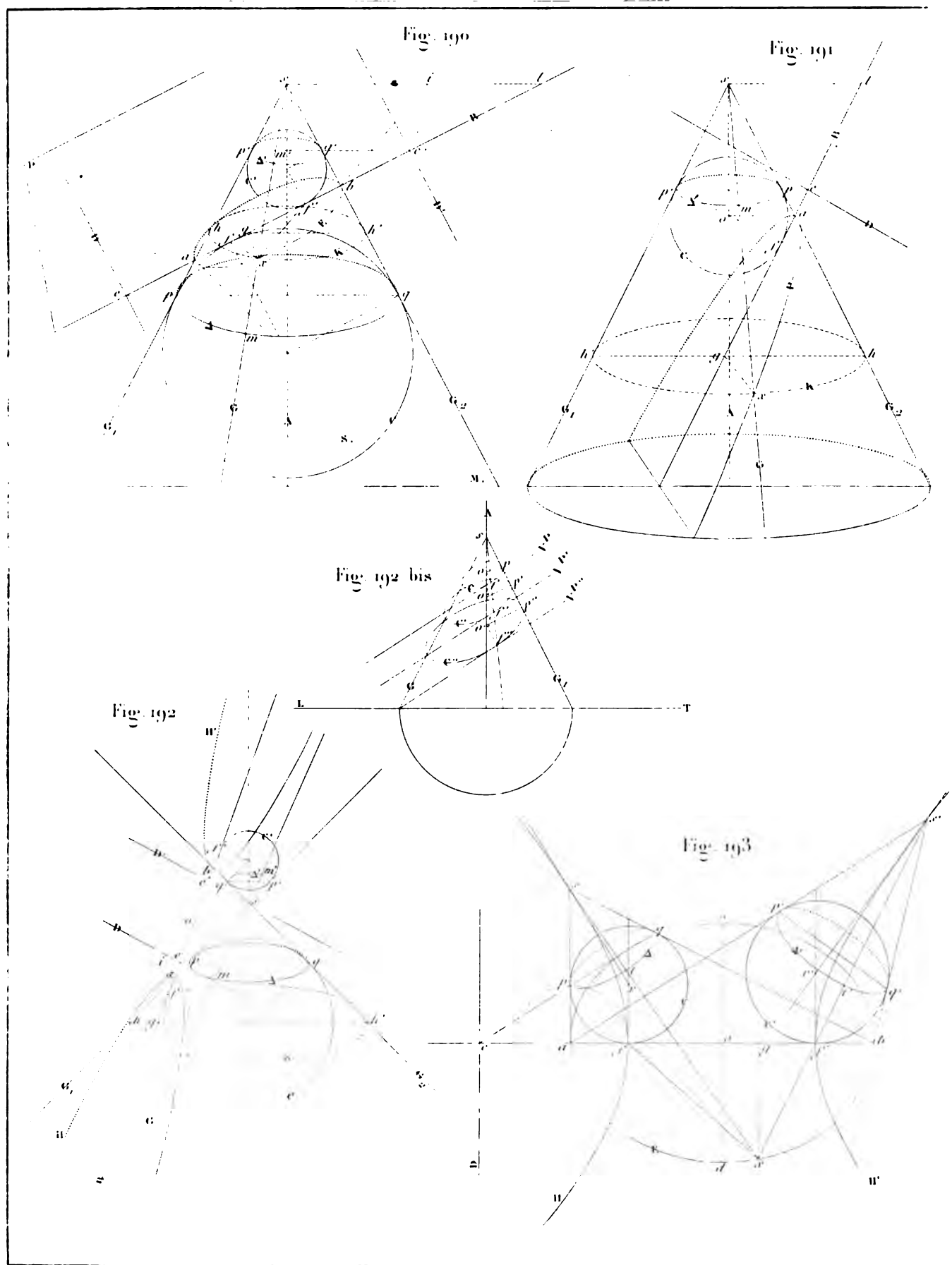


Fig. 185









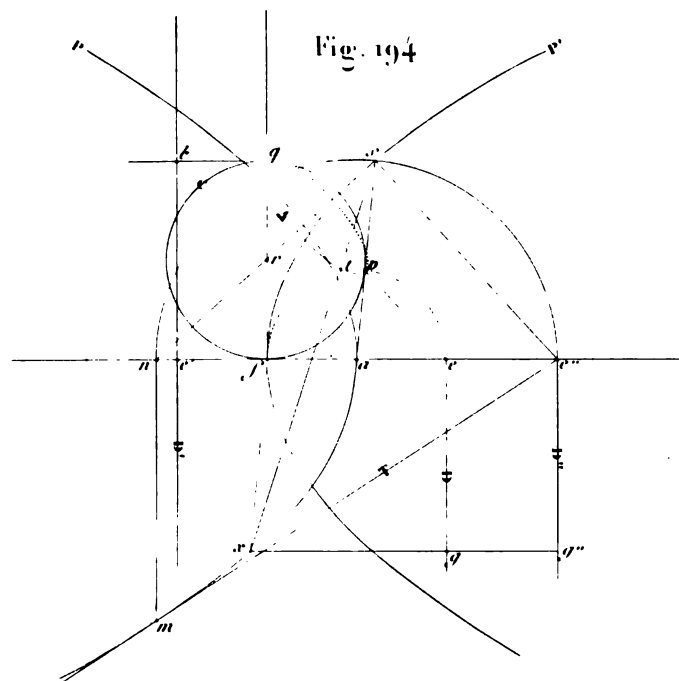


Fig. 194

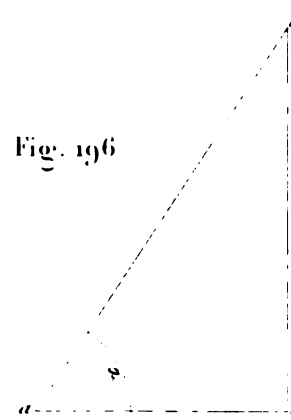


Fig. 196

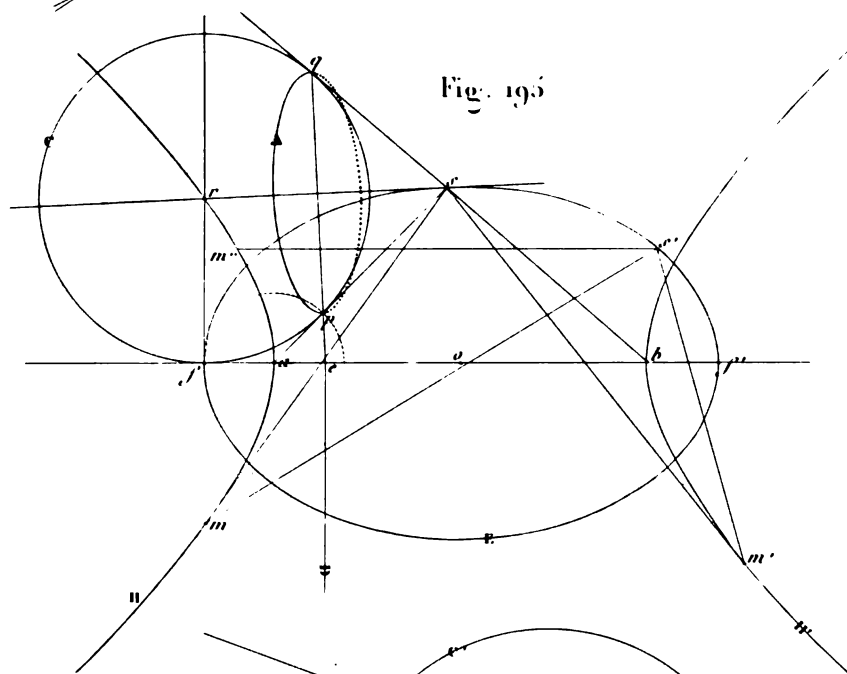


Fig. 195

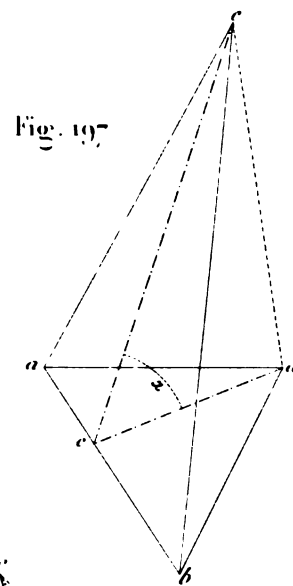


Fig. 197

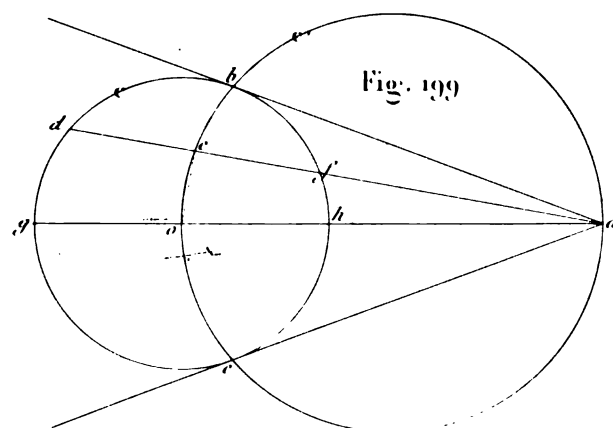


Fig. 199

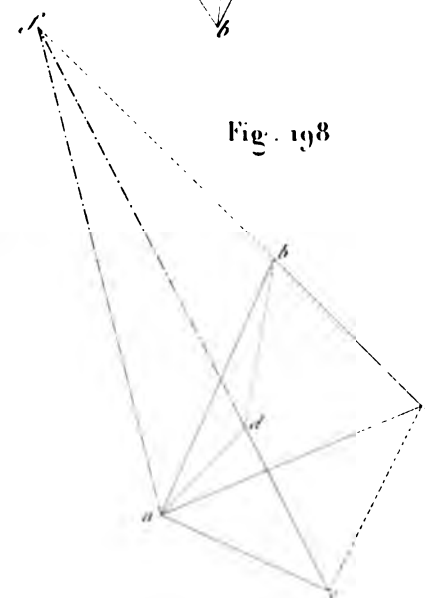
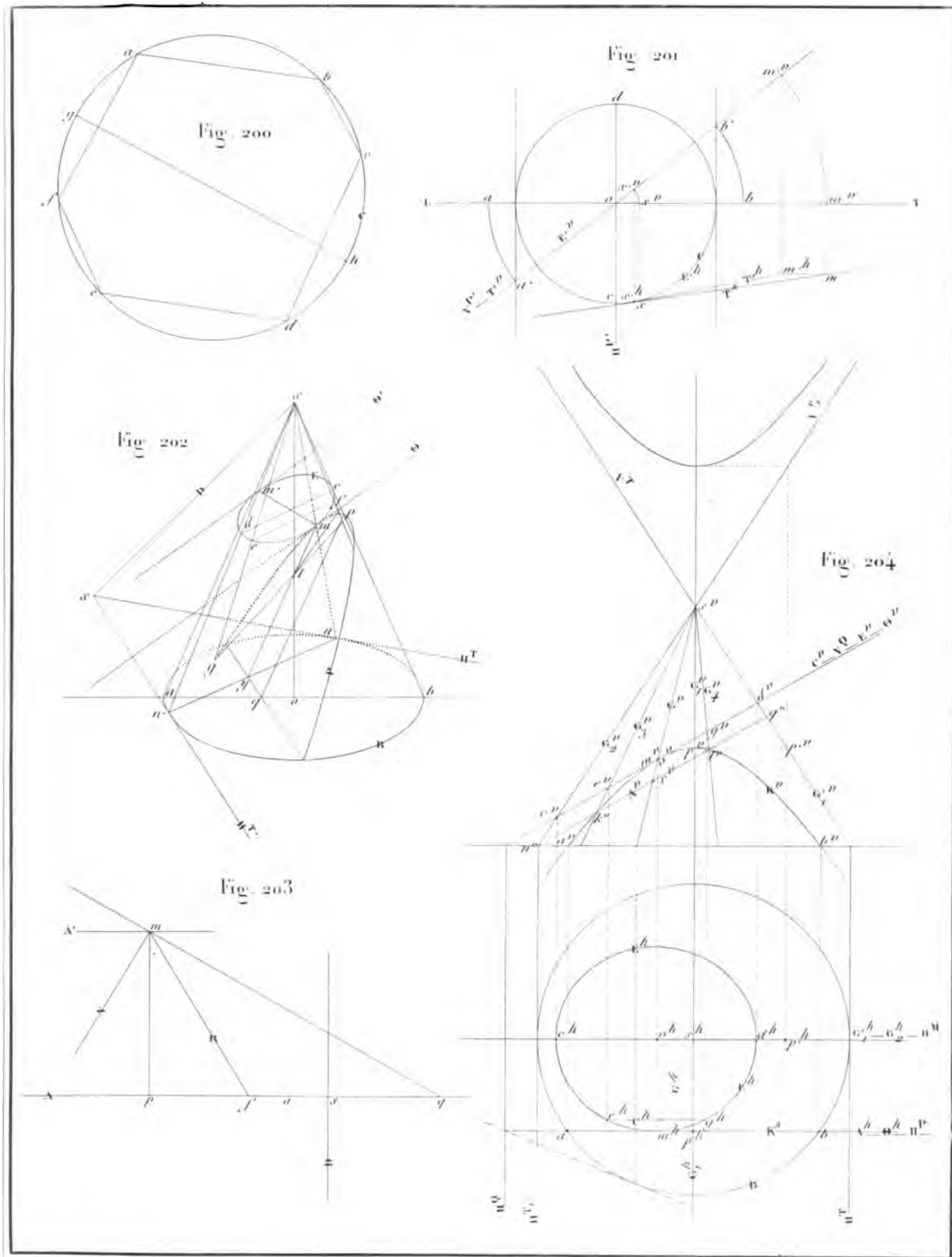
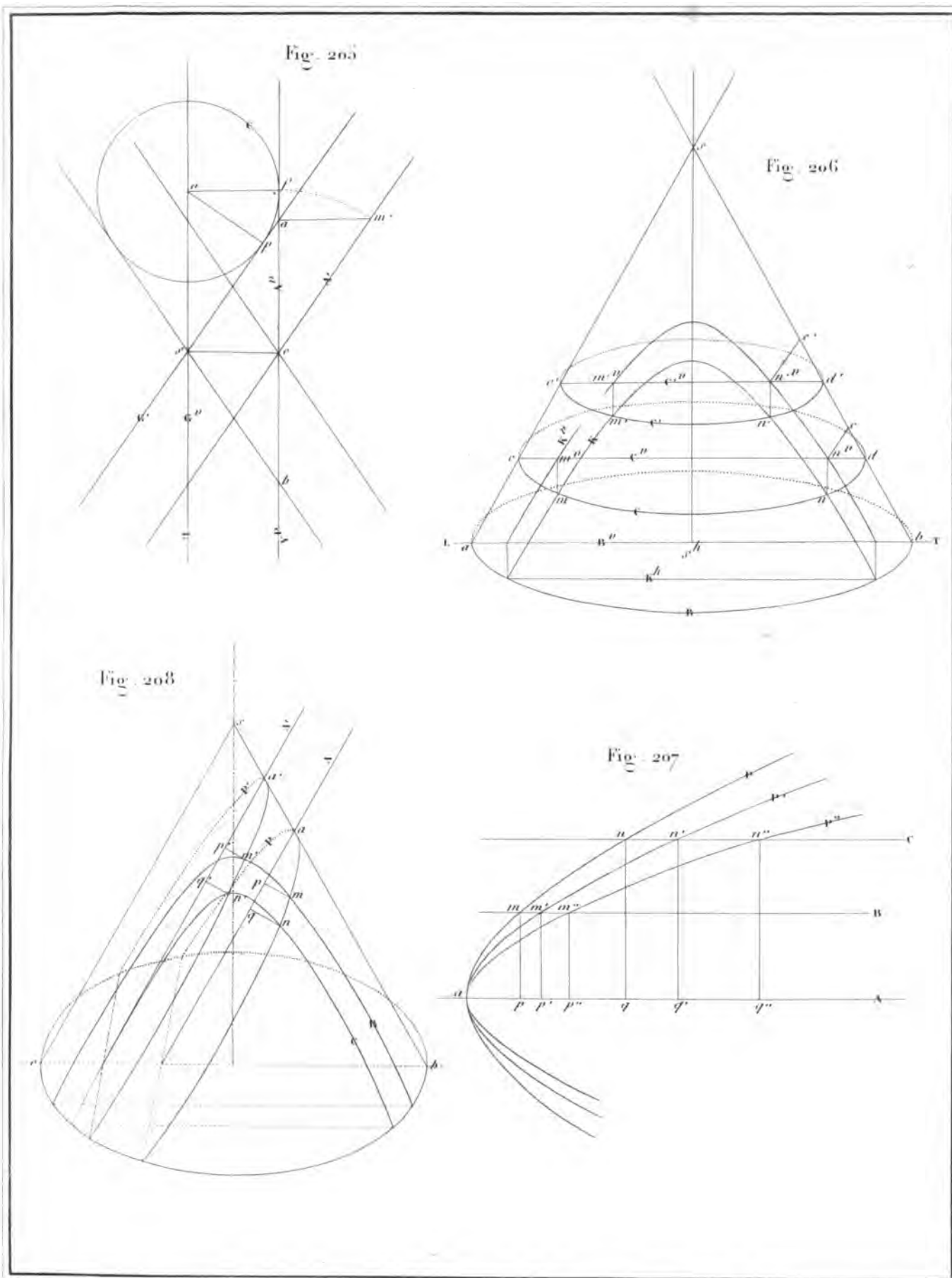


Fig. 198









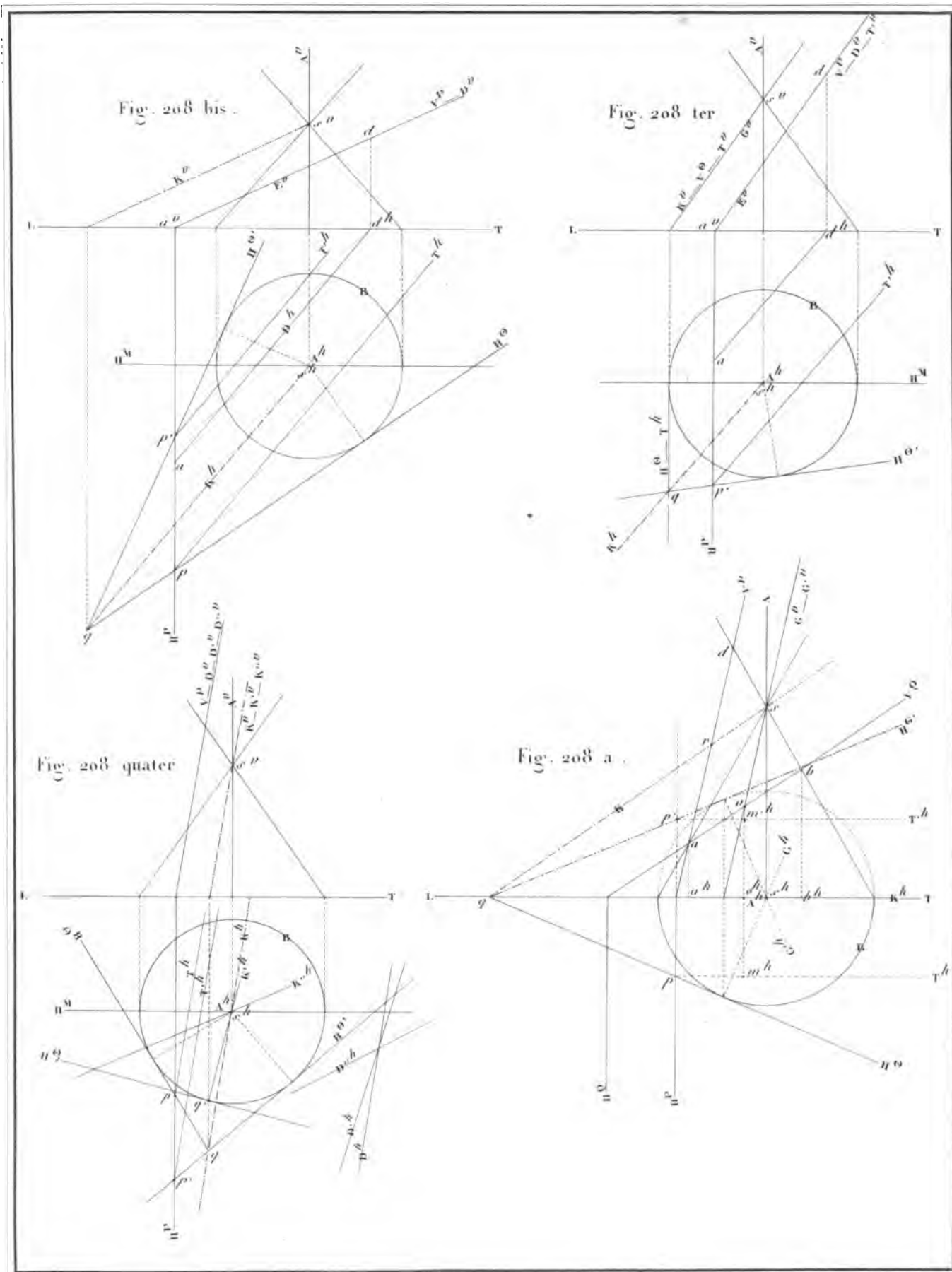


Fig. 208 b.

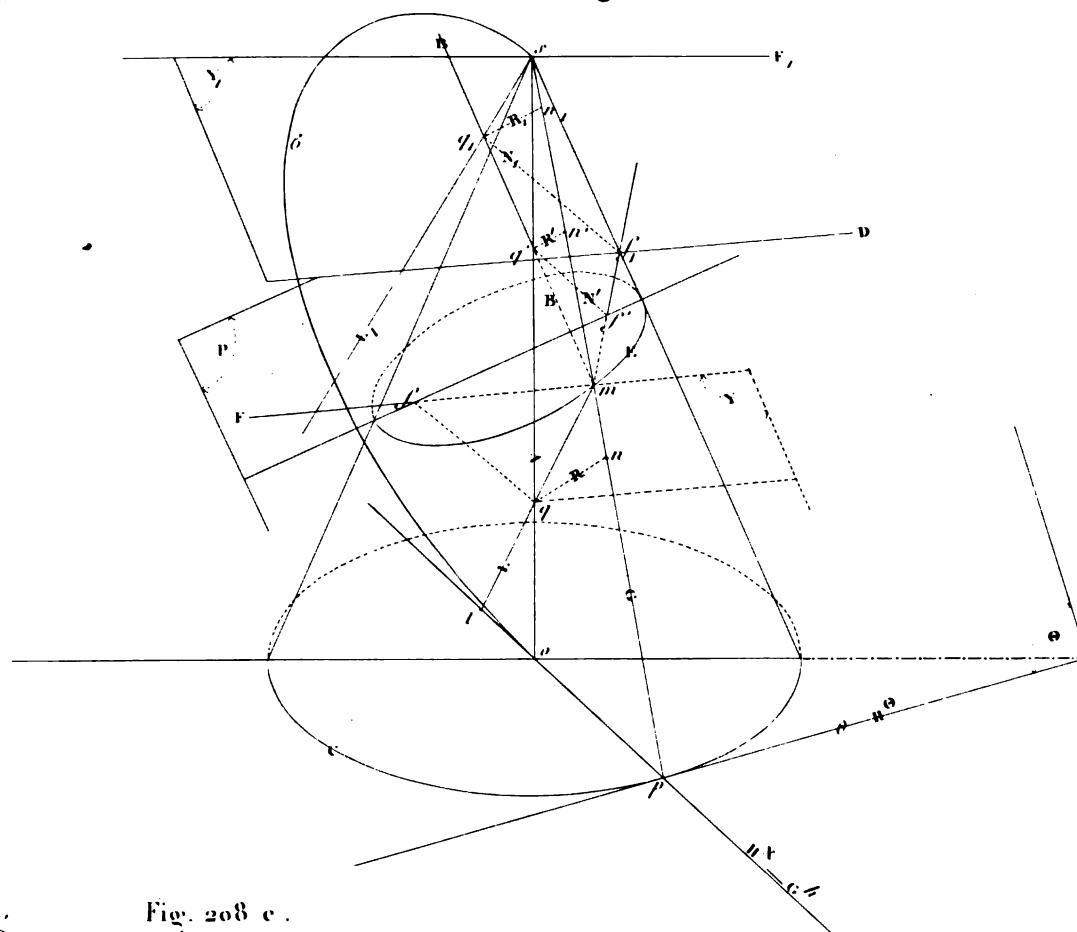


Fig. 208 c.

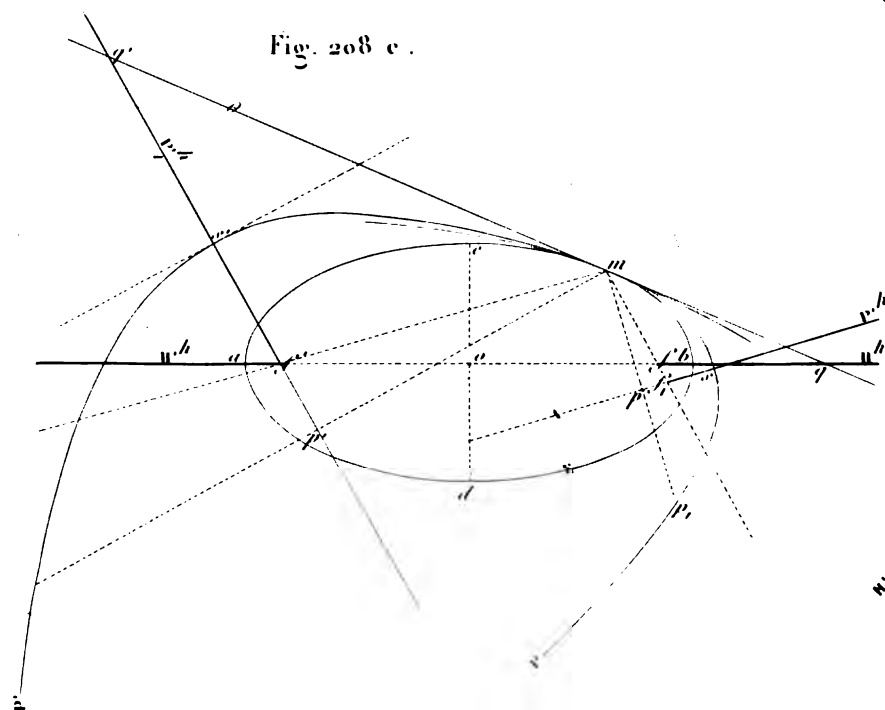


Fig. 208 d.

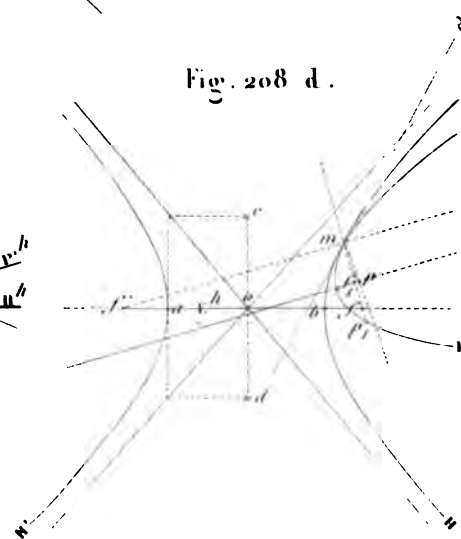




Fig. 208 e

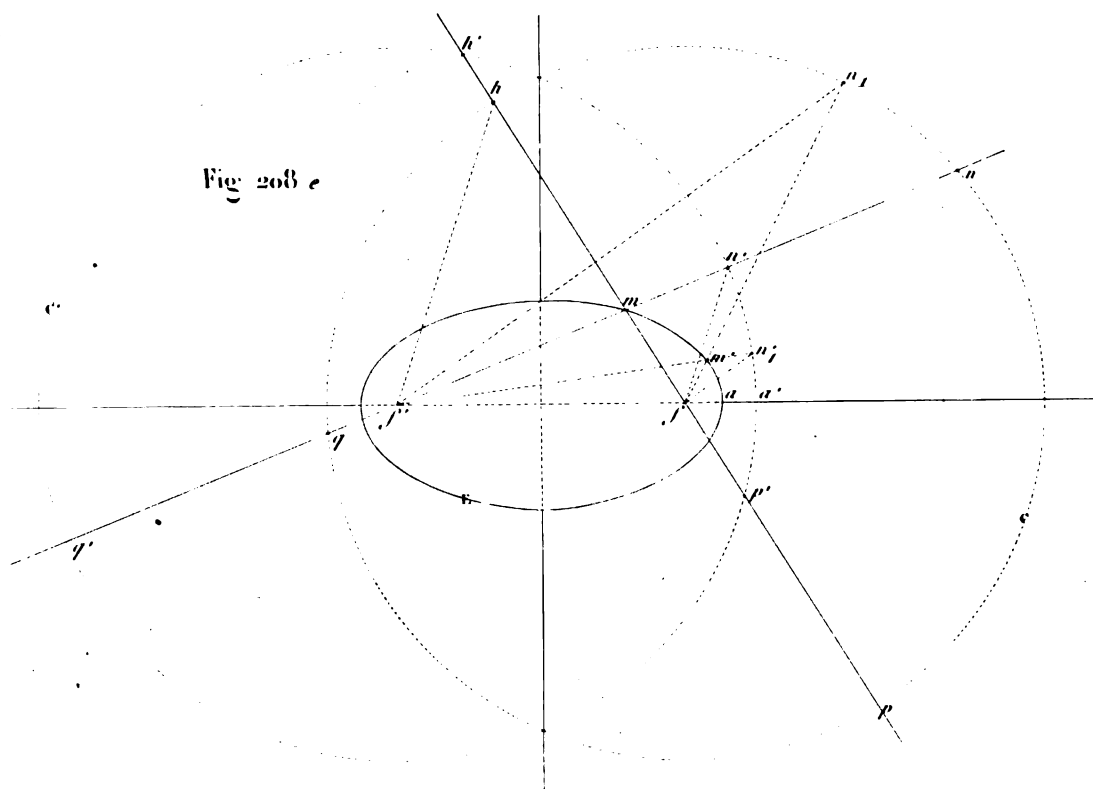


Fig. 208 (e bis)

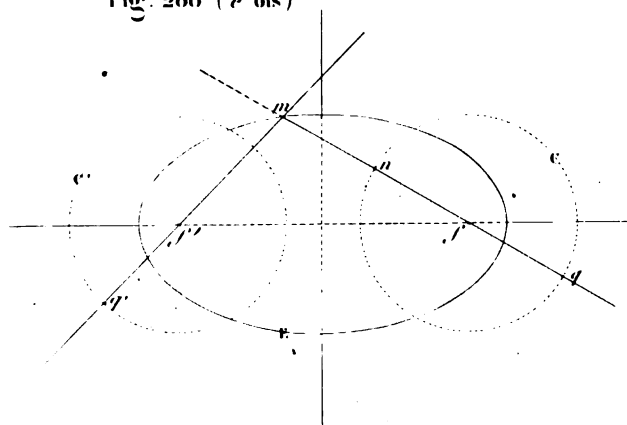


Fig. 208 h

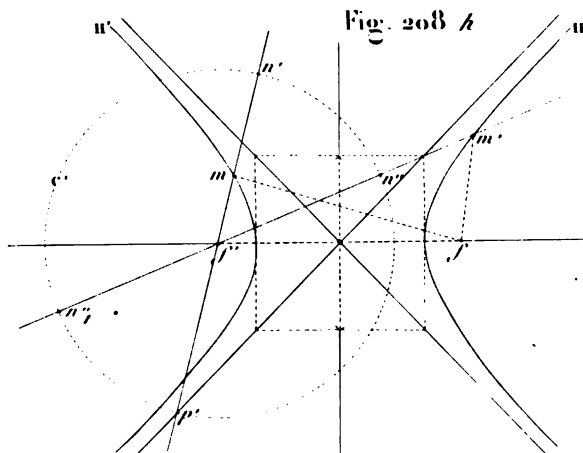
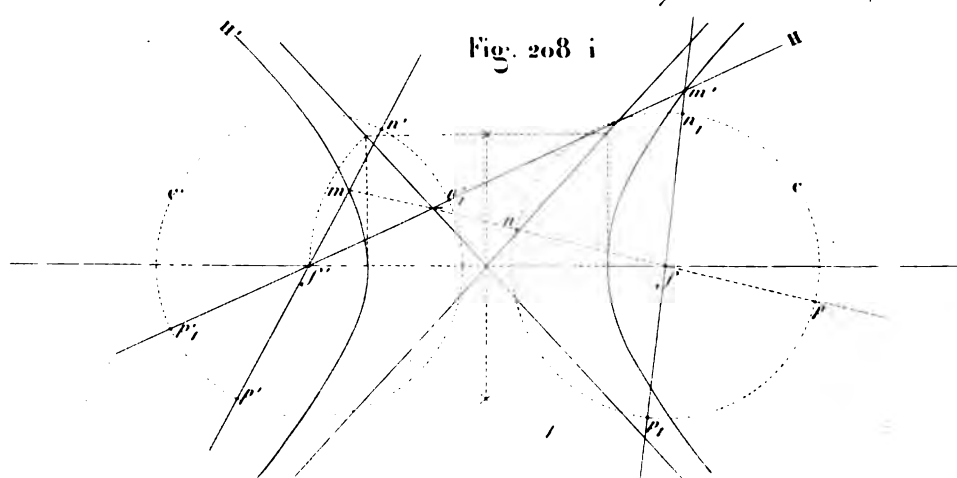
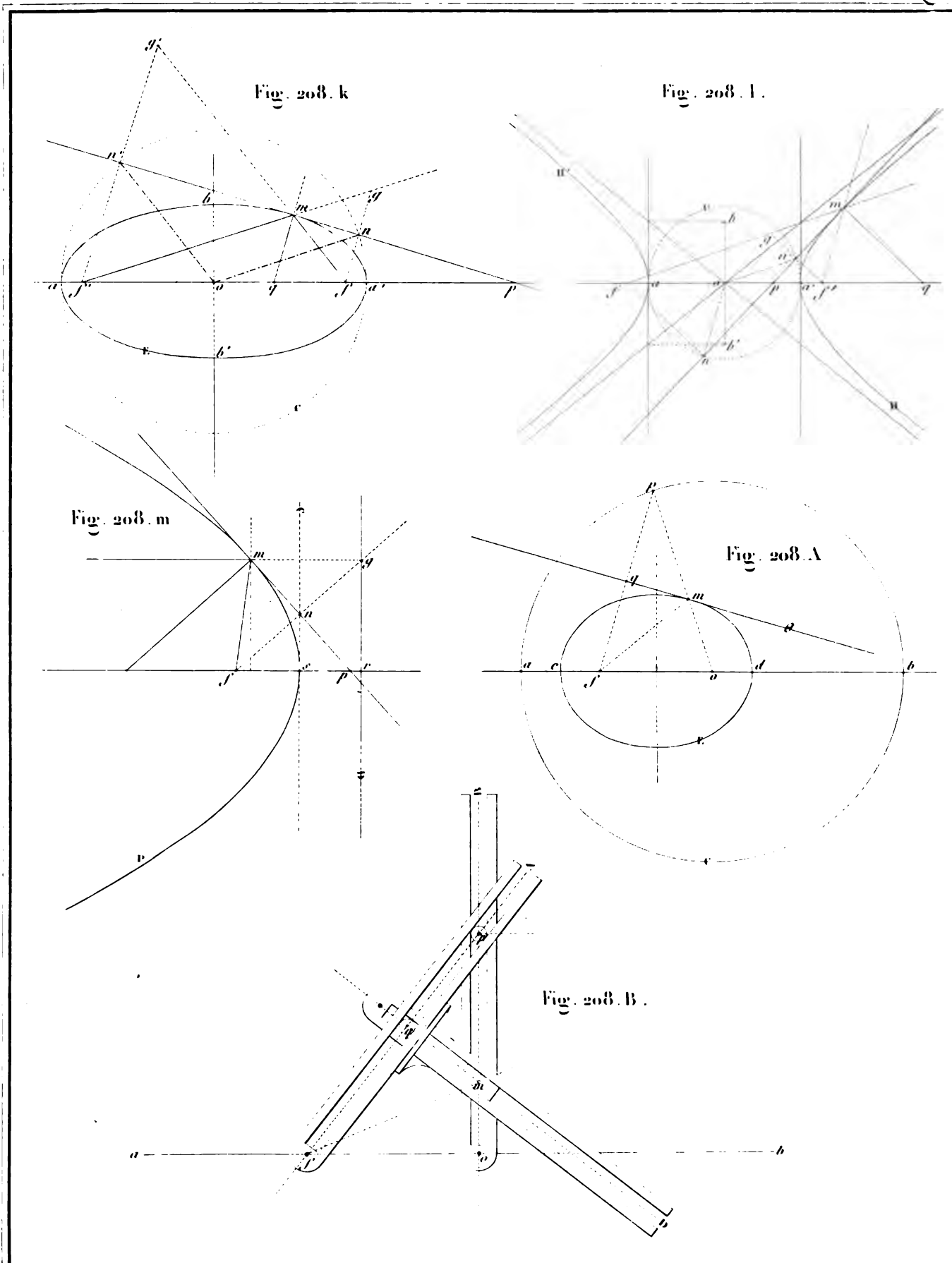


Fig. 208 i





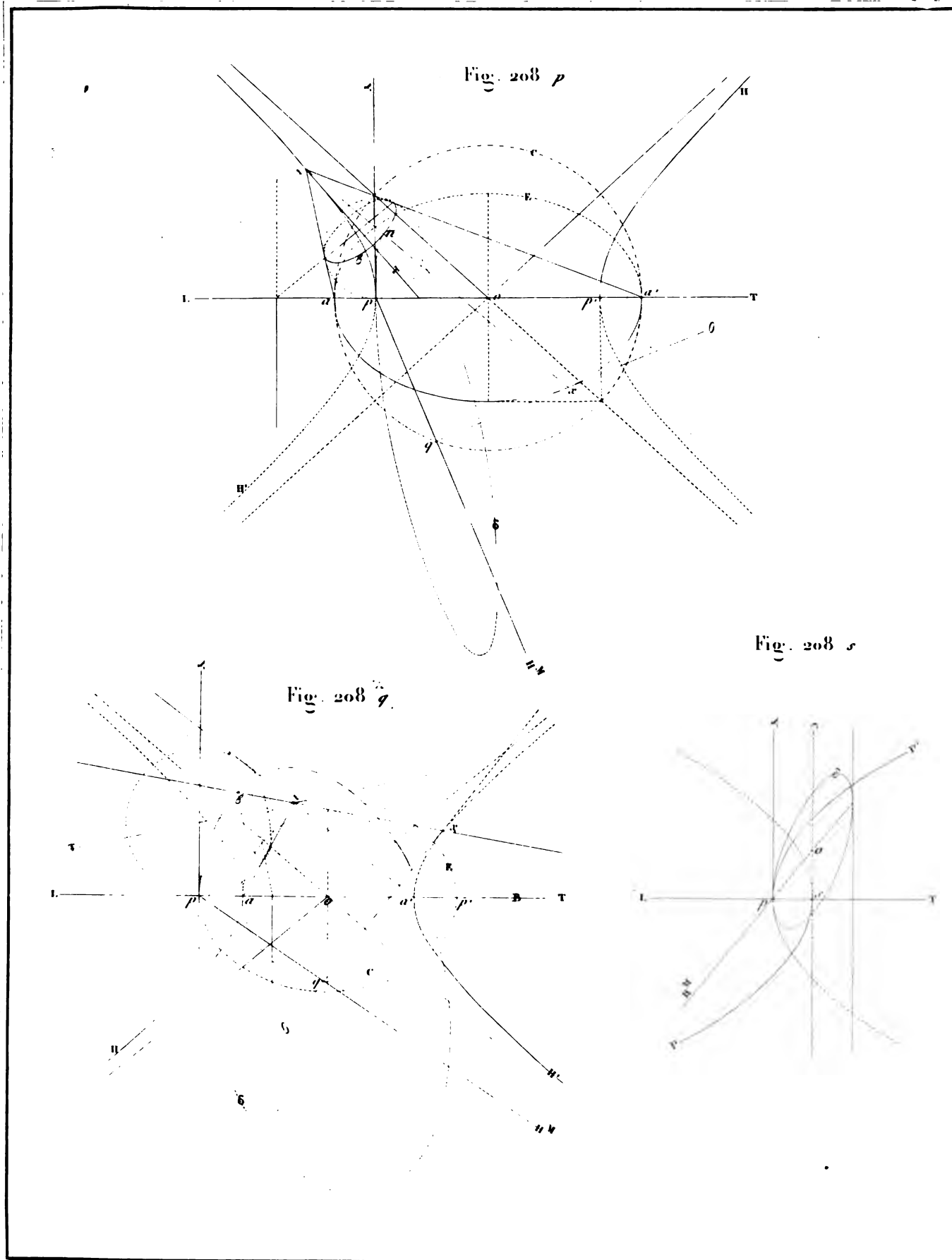


Fig. 208 (x bis)

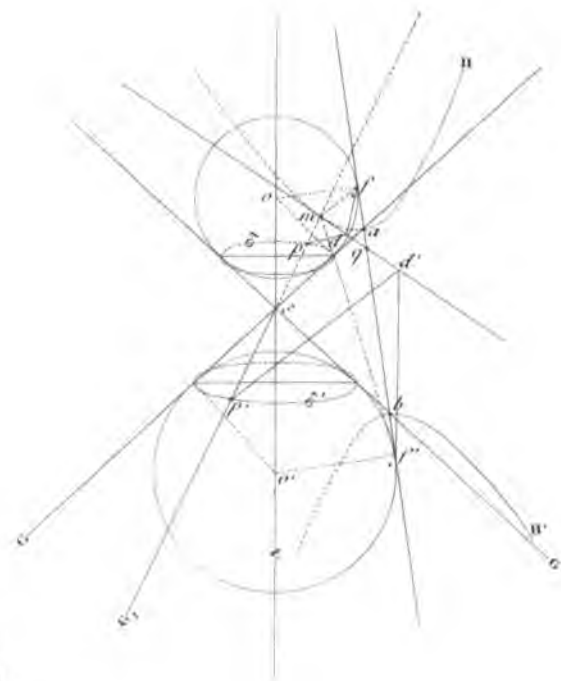
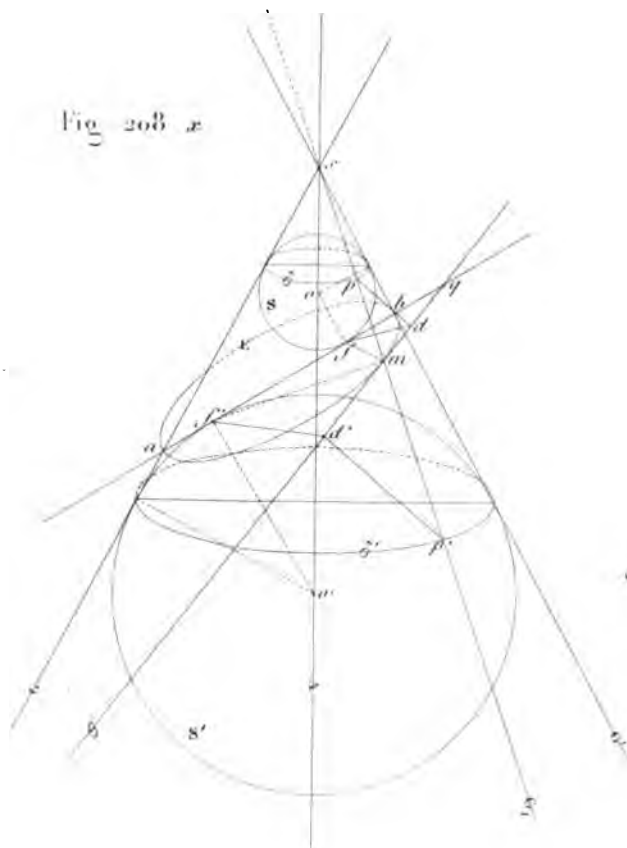
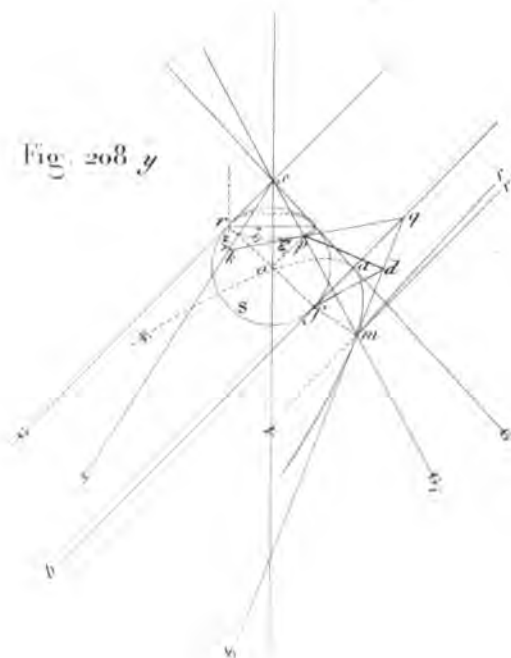
Fig. 20b x Fig. 208 y 

Fig. 208 z

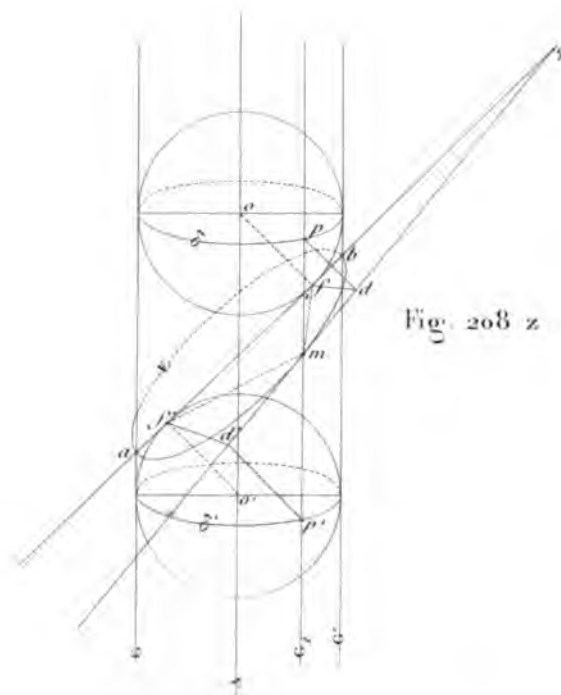


Fig. 209

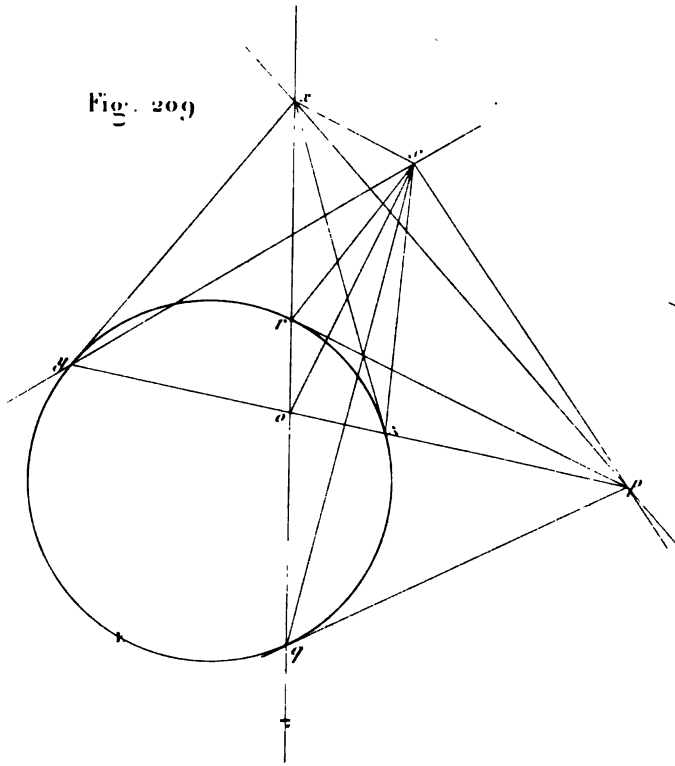


Fig. 210

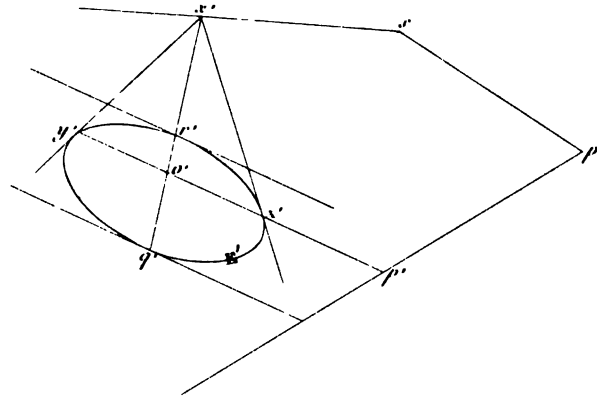


Fig. 212

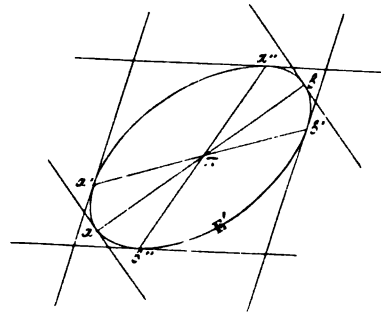
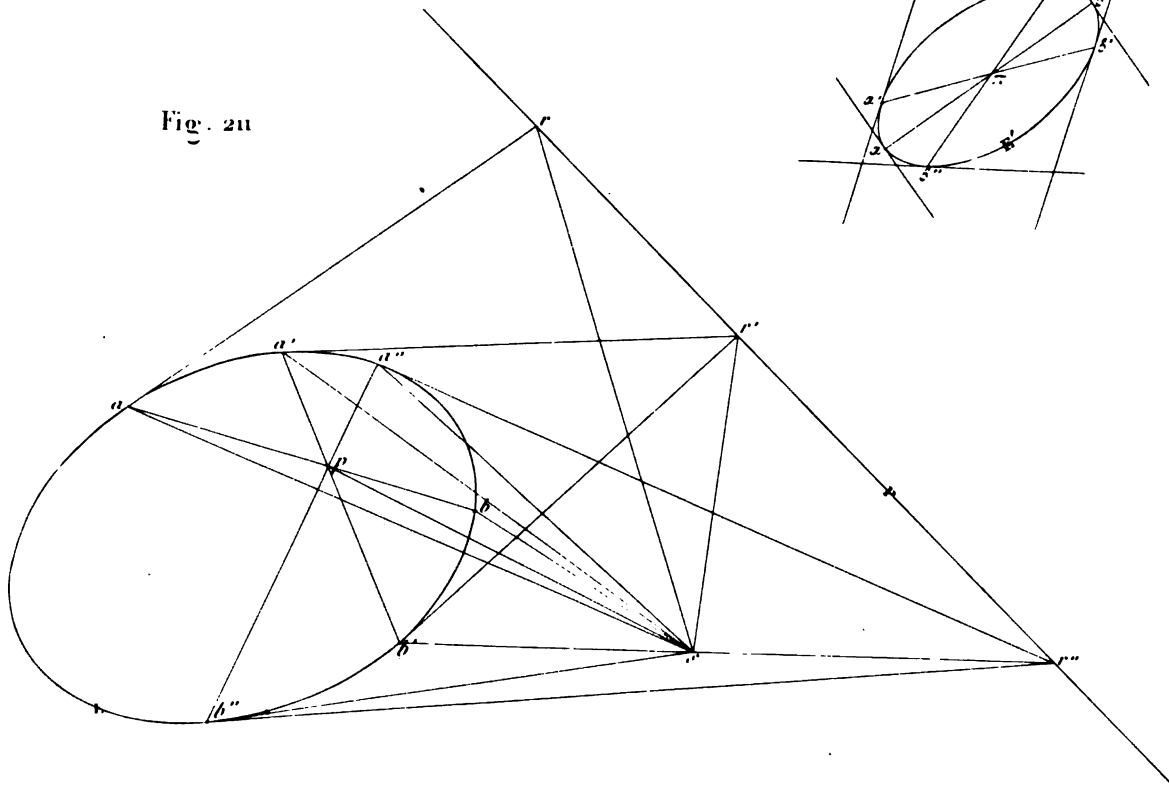


Fig. 211



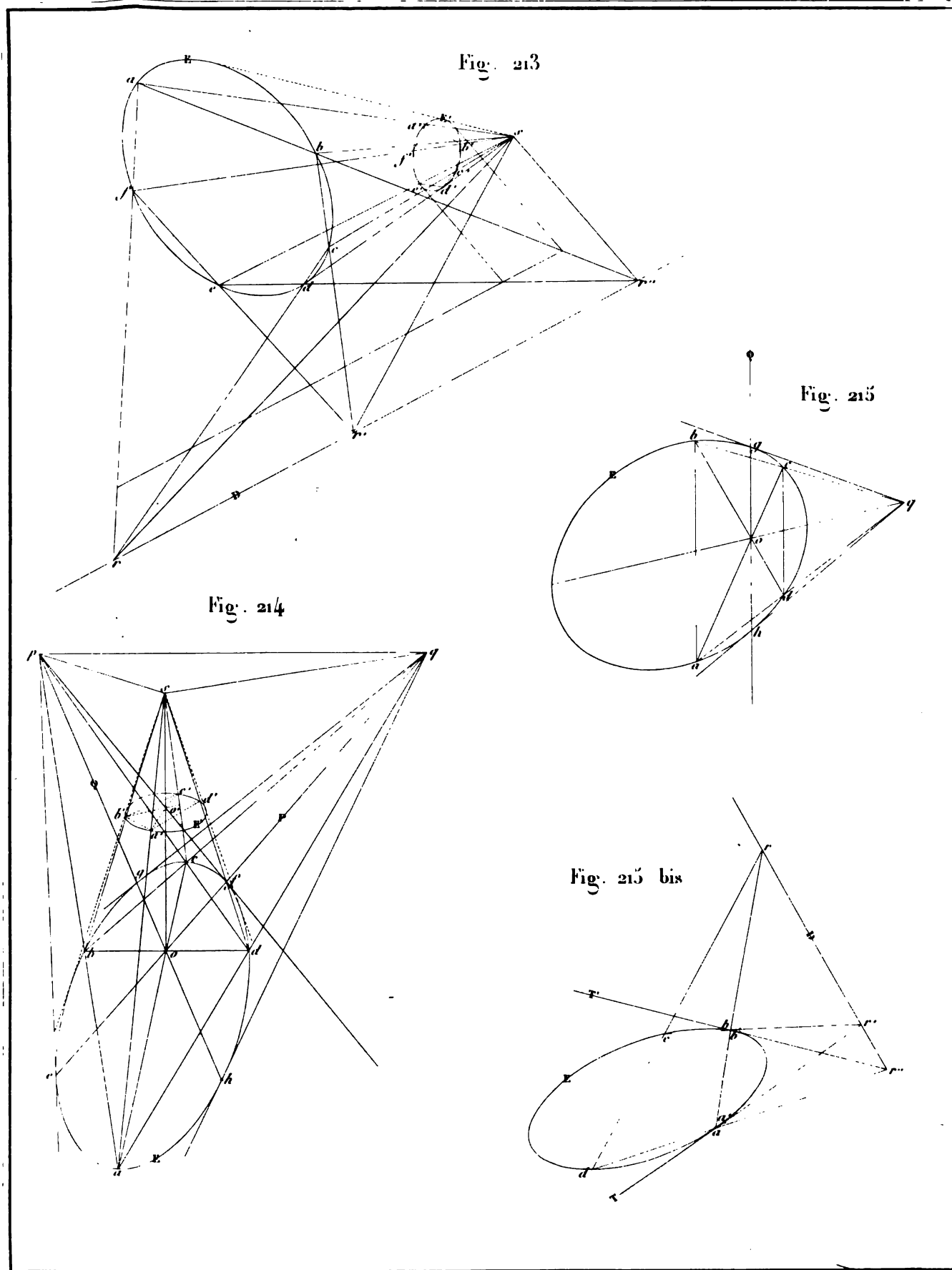


Fig. 215 ter

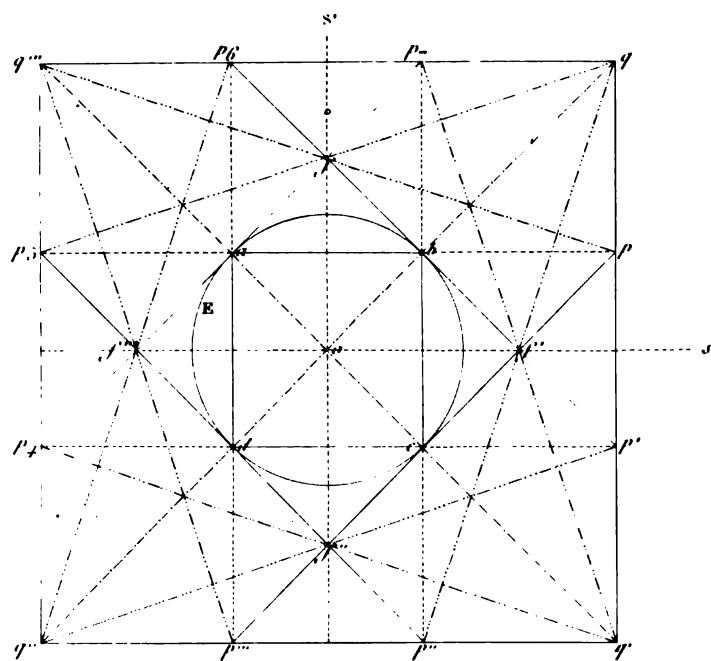


Fig. 215 quater

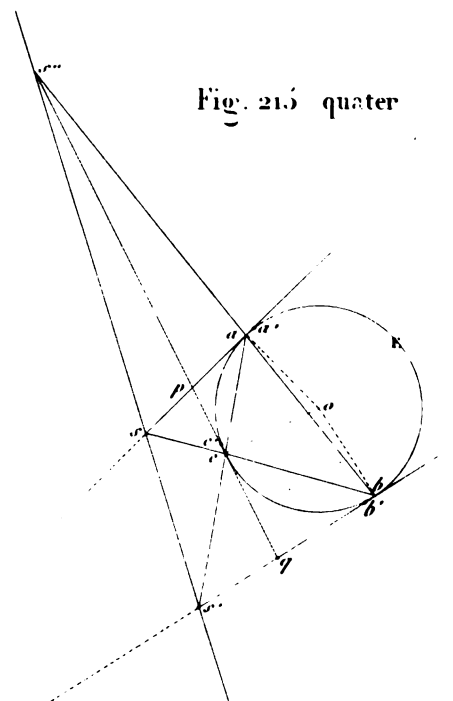


Fig. 215 a

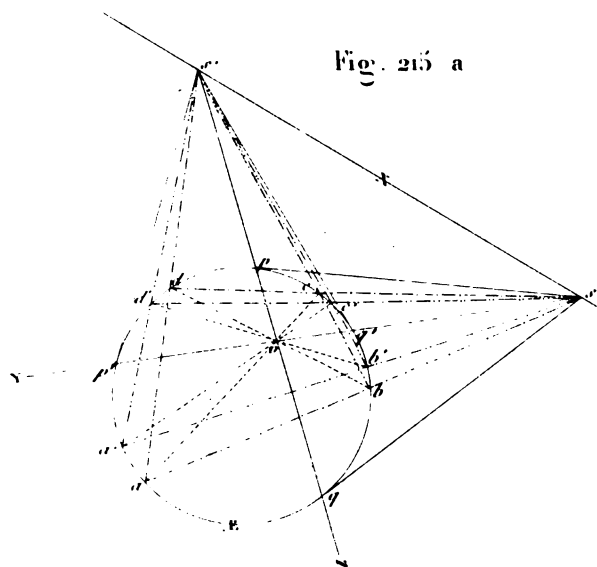


Fig. 215 b

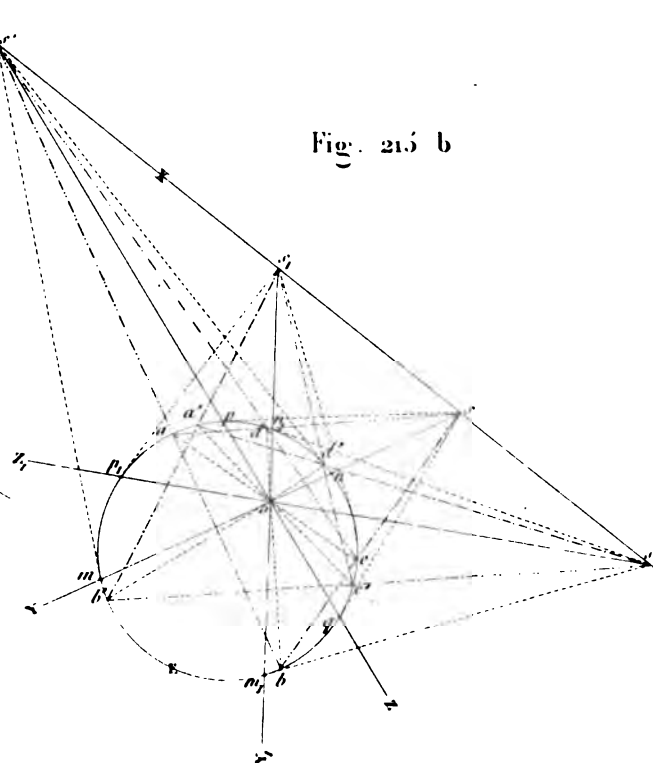


Fig. 216

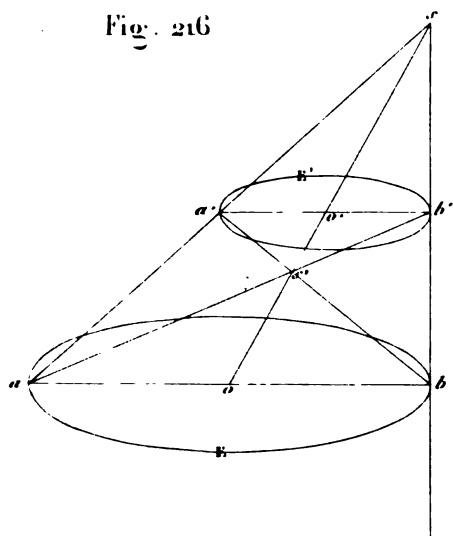


Fig. 217 .

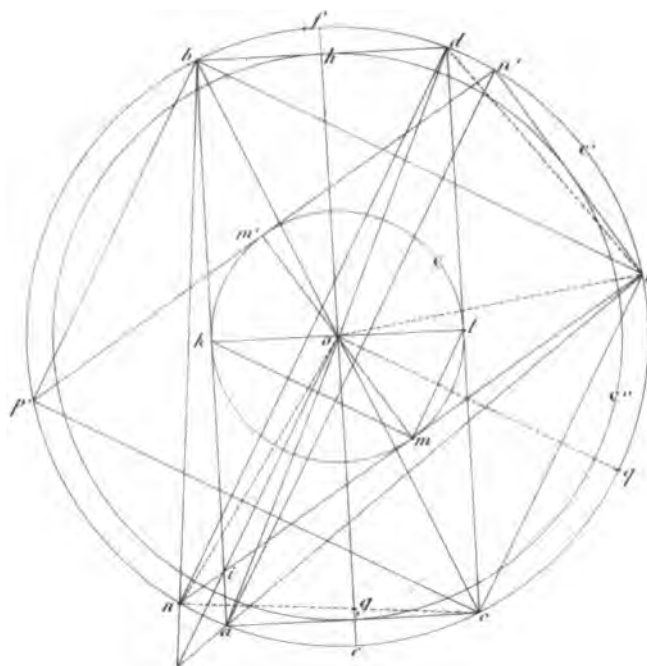


Fig. 218 .

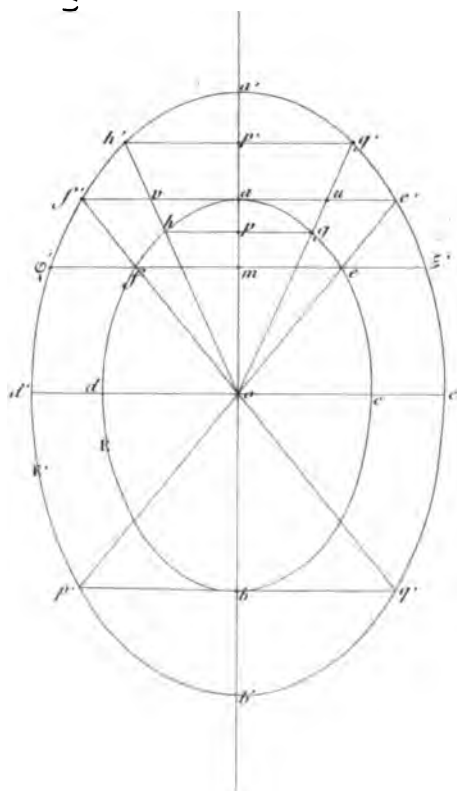


Fig. 218 bis

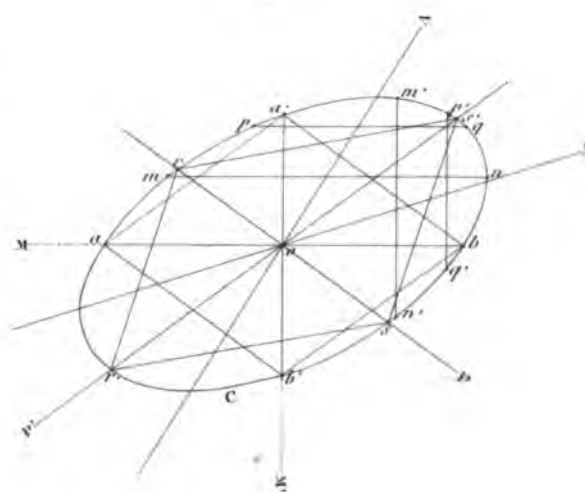


Fig. 218 a .

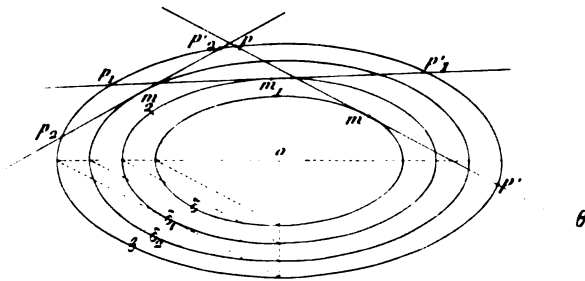


Fig. 218 b .

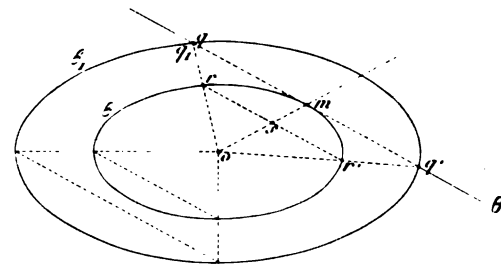


Fig. 218 c .

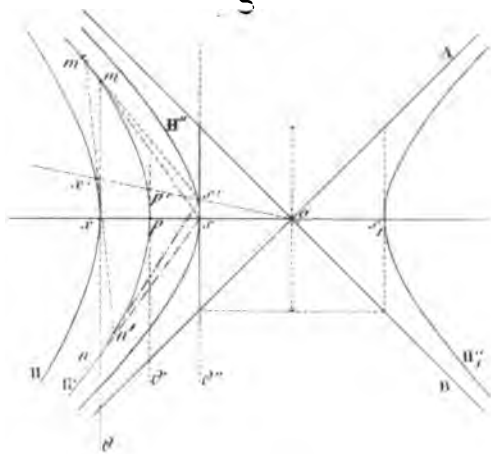


Fig. 218 d .

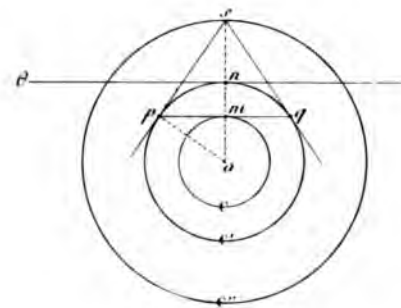


Fig. 218 e

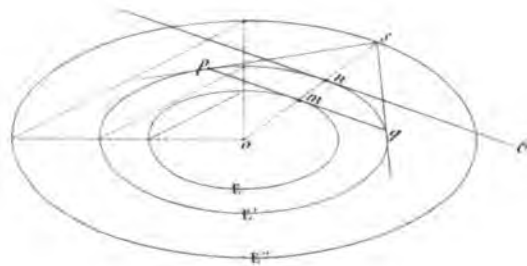


Fig. 218 f .

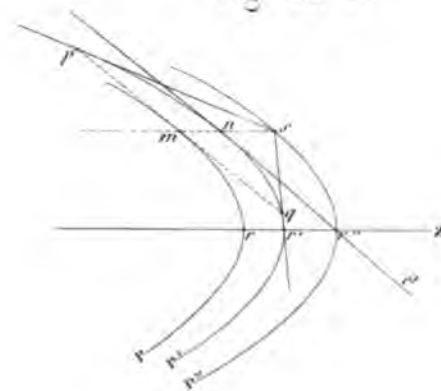


Fig. 219

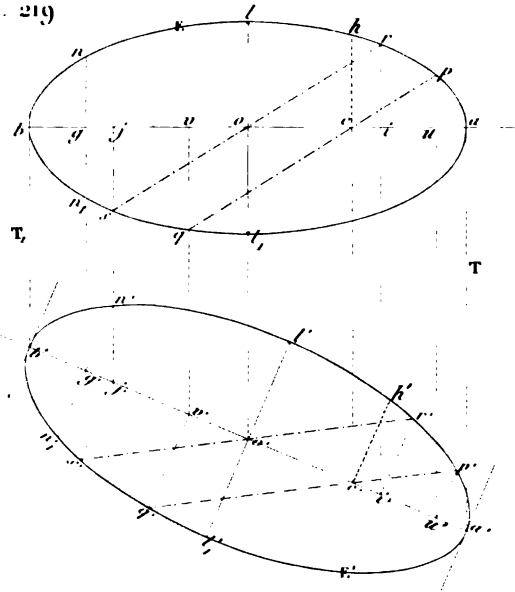


Fig. 220

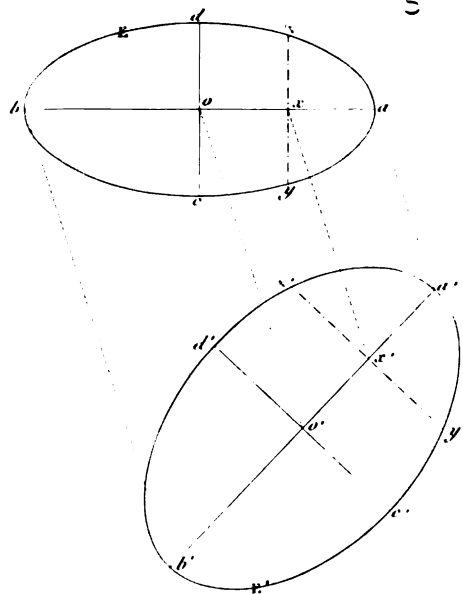


Fig. 220 a

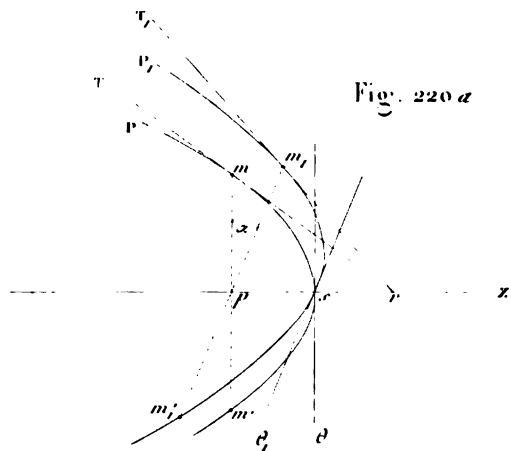


Fig. 220 bis

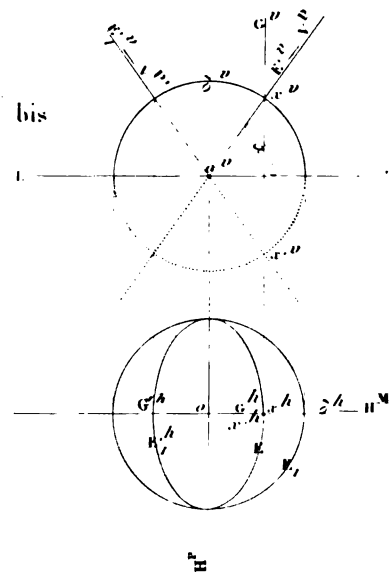


Fig. 220 ter

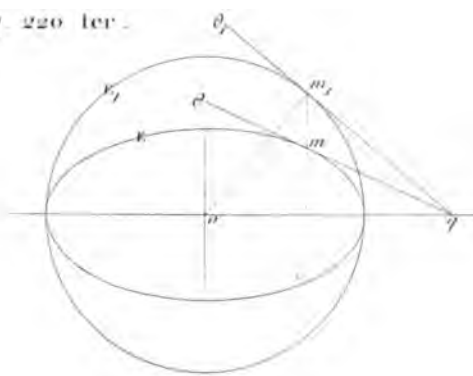
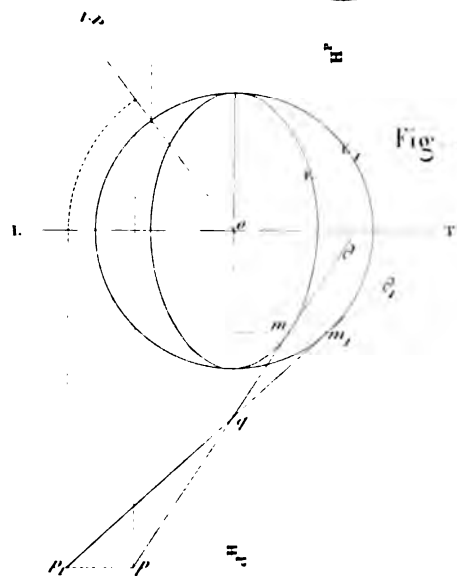
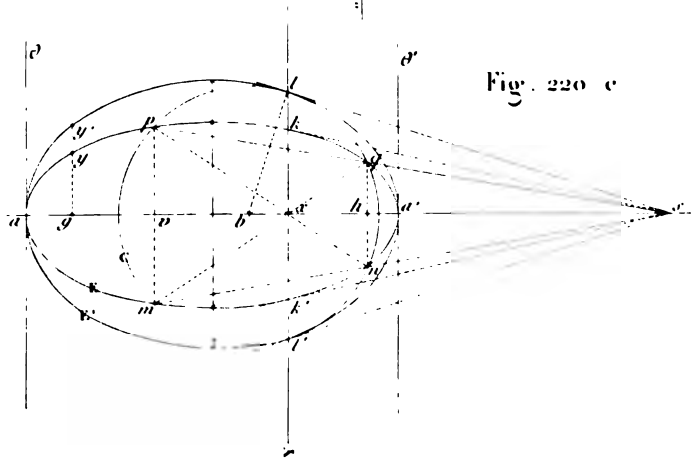
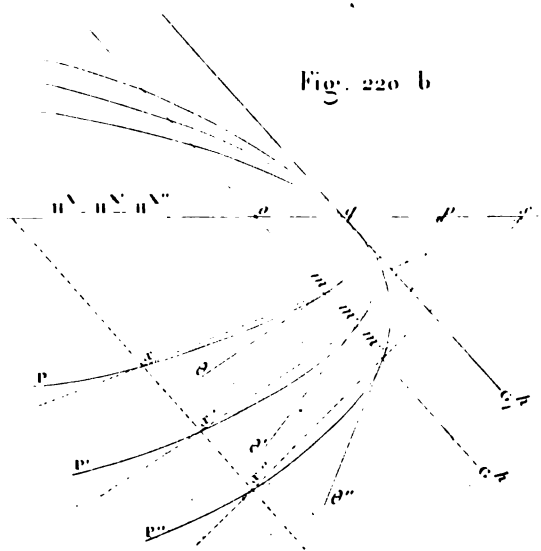
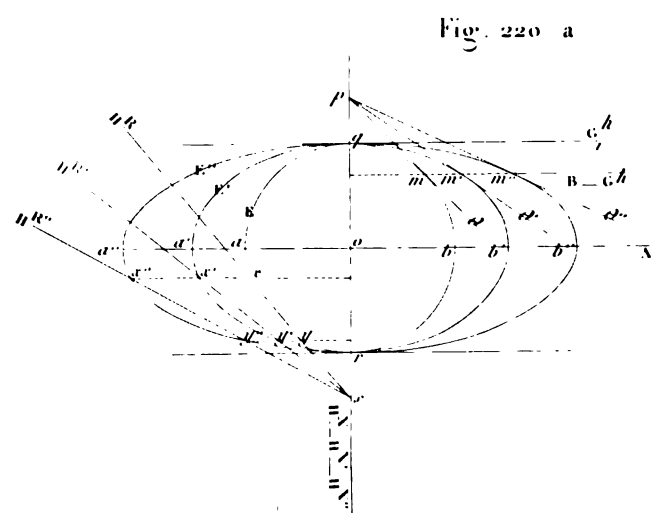
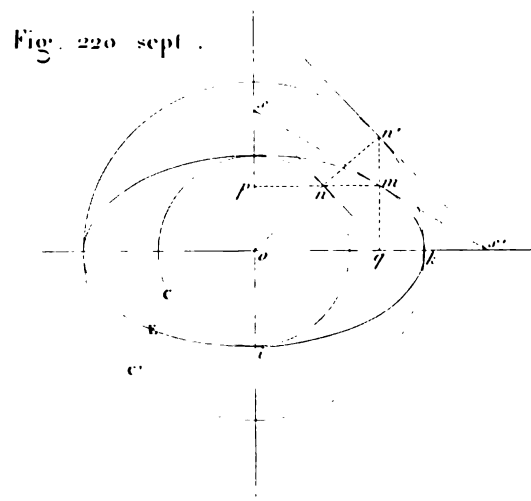
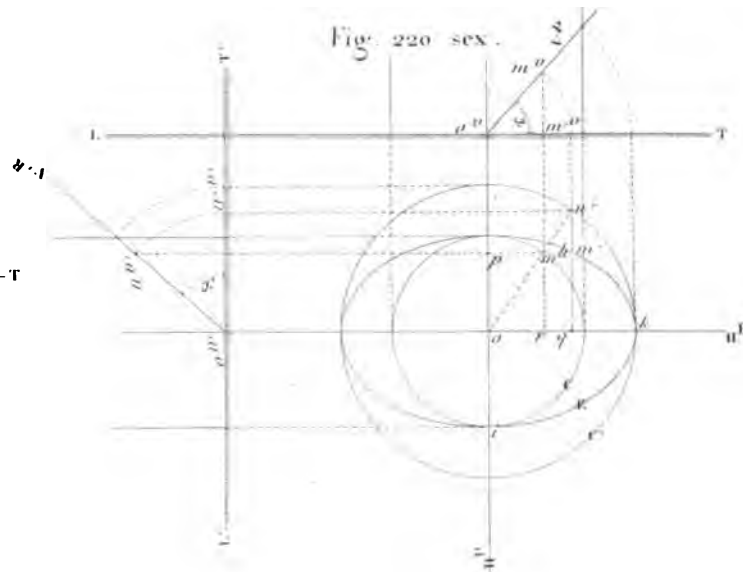
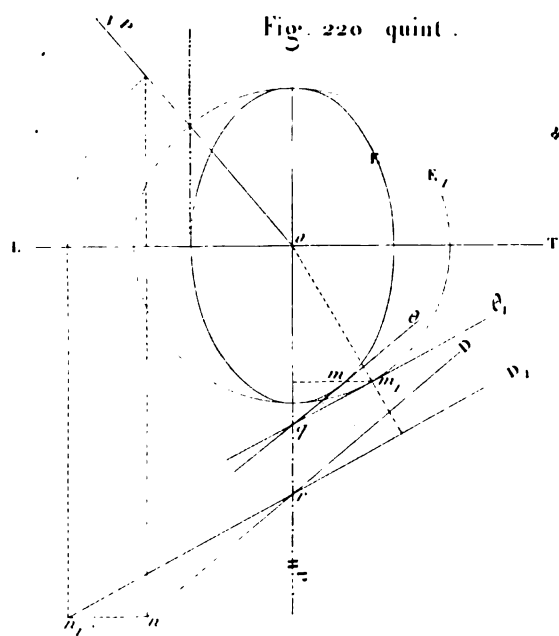
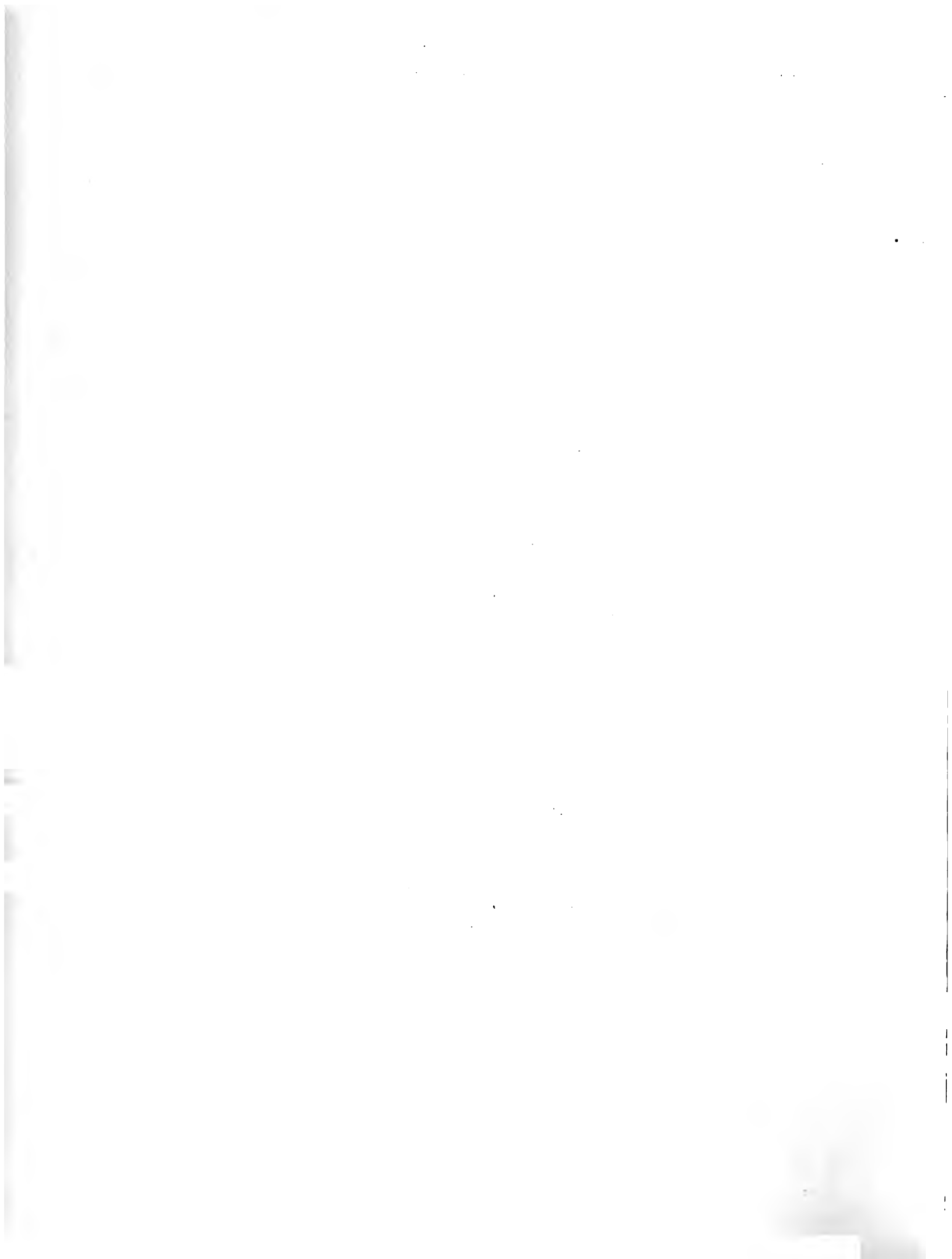
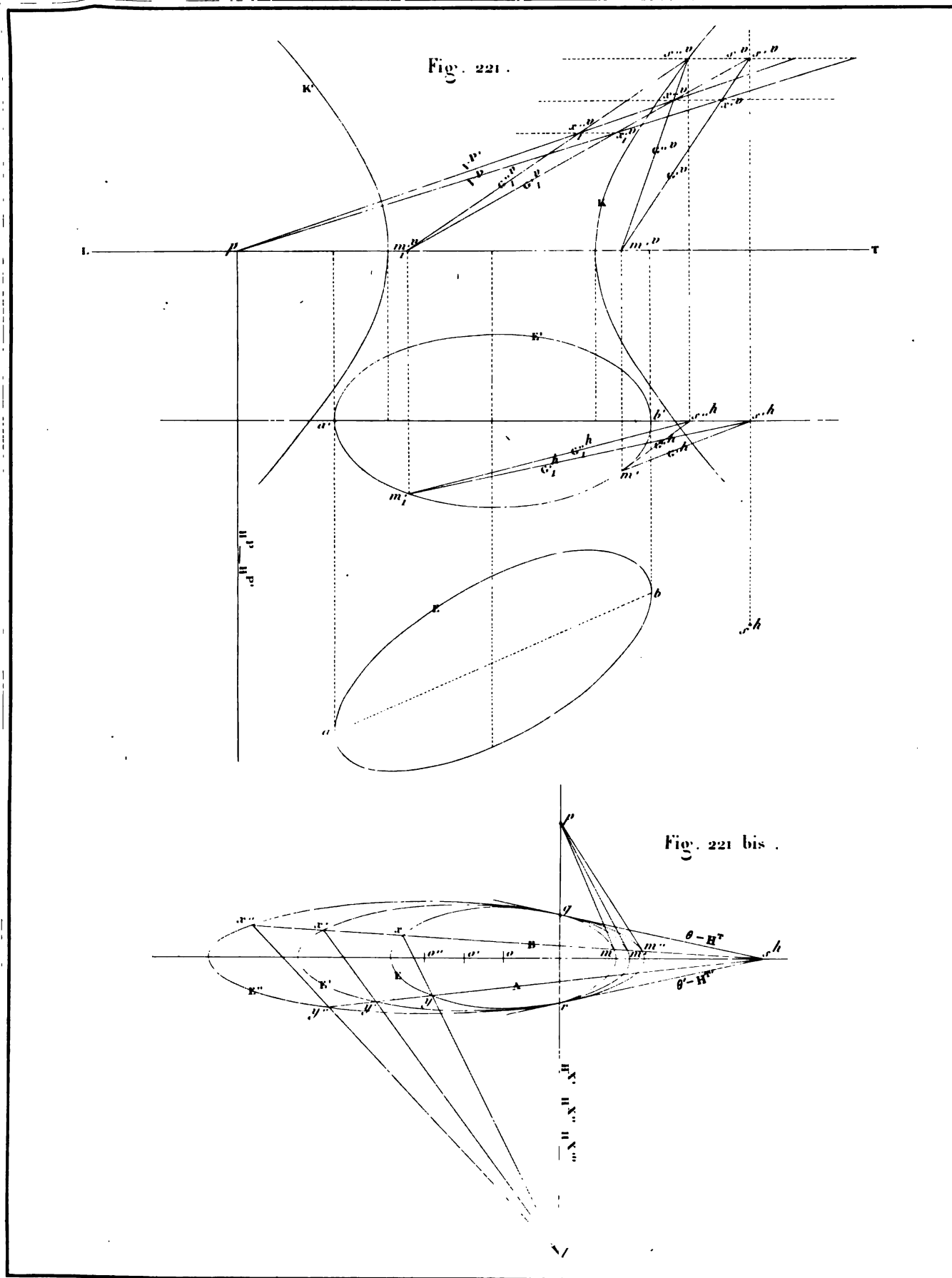


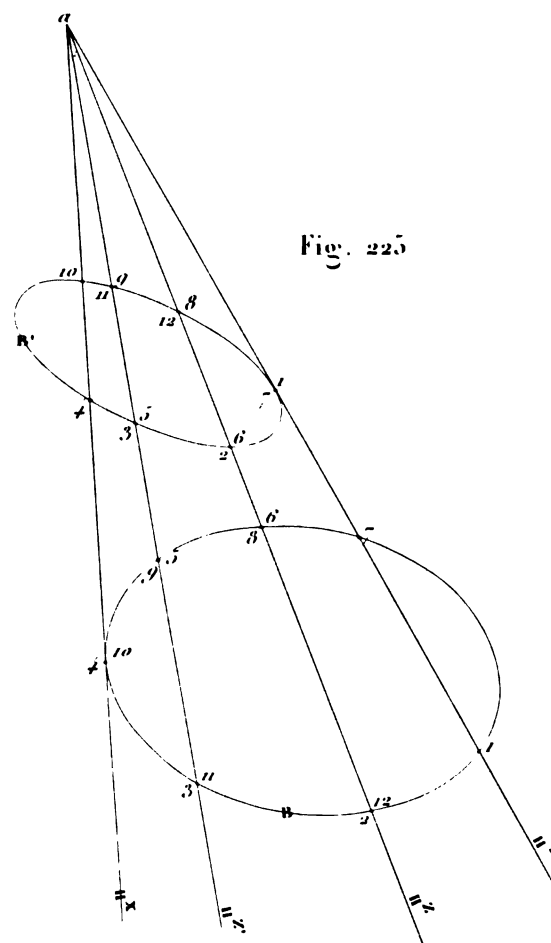
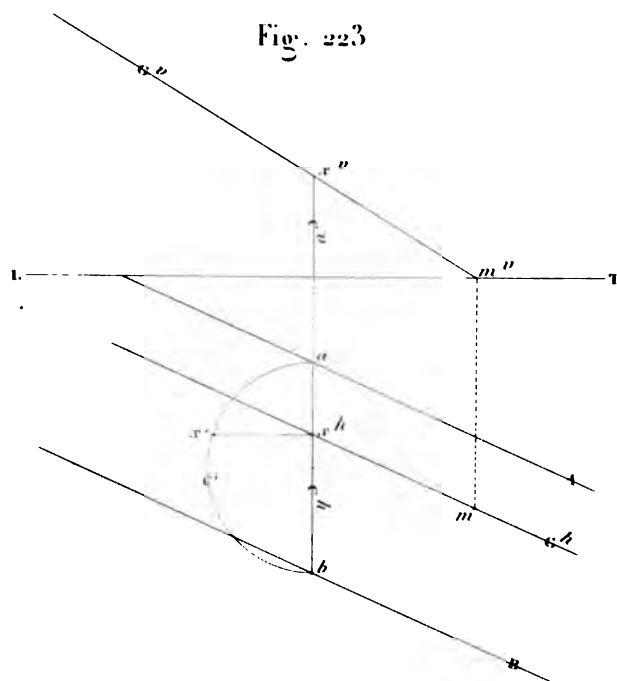
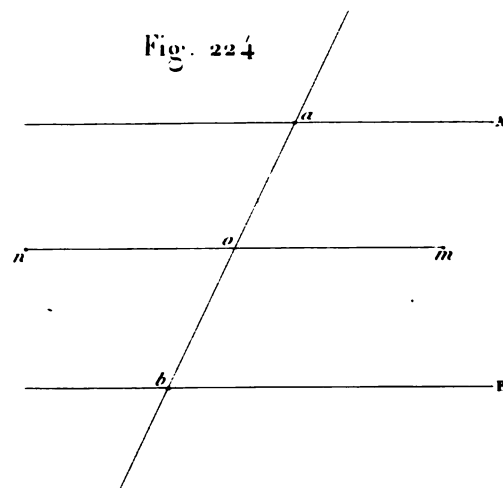
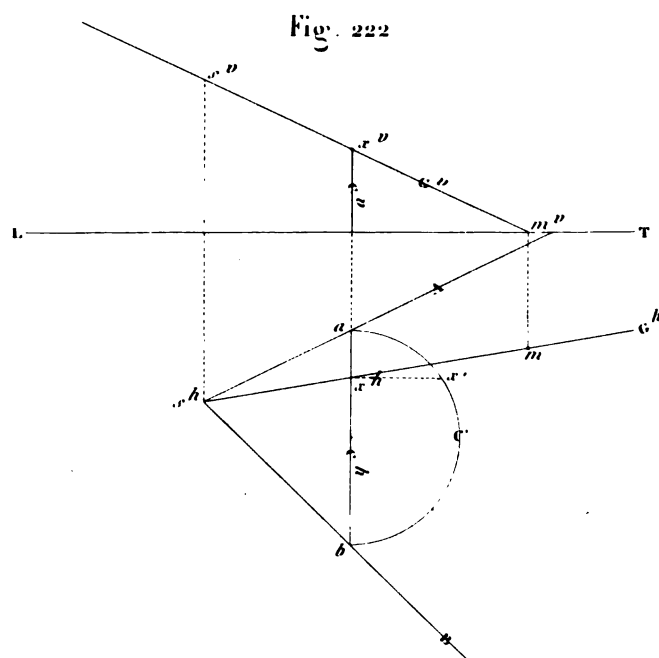
Fig. 220 quart.











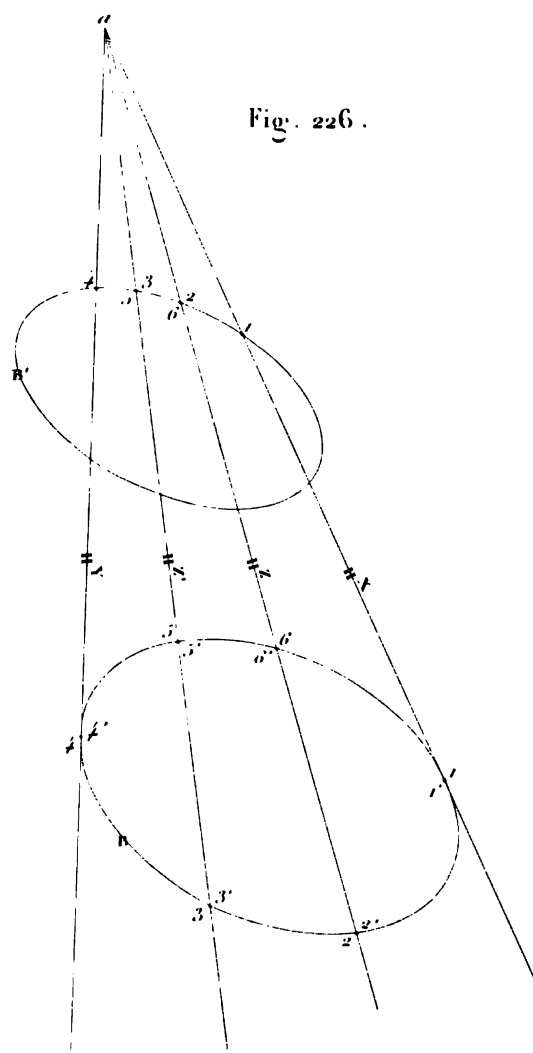


Fig. 226 .

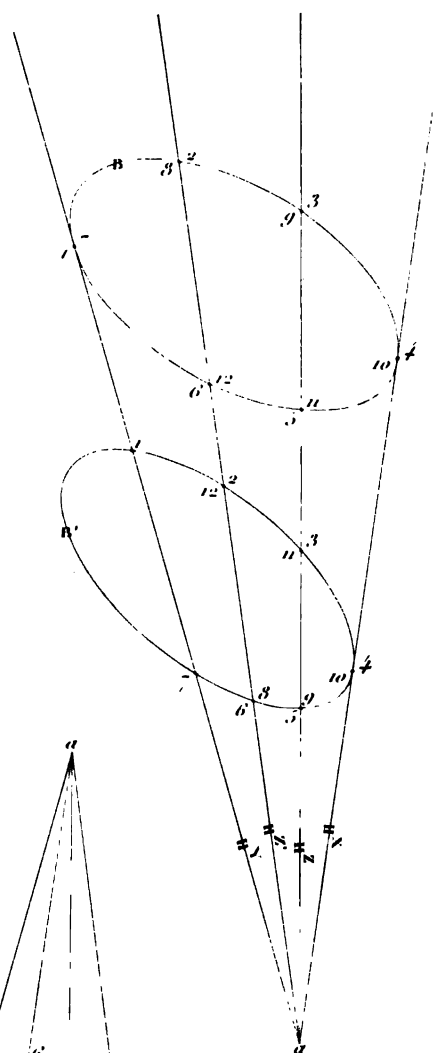


Fig. 227 .

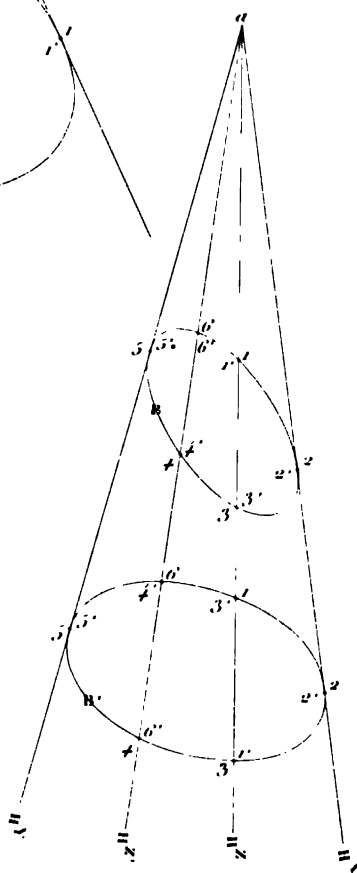
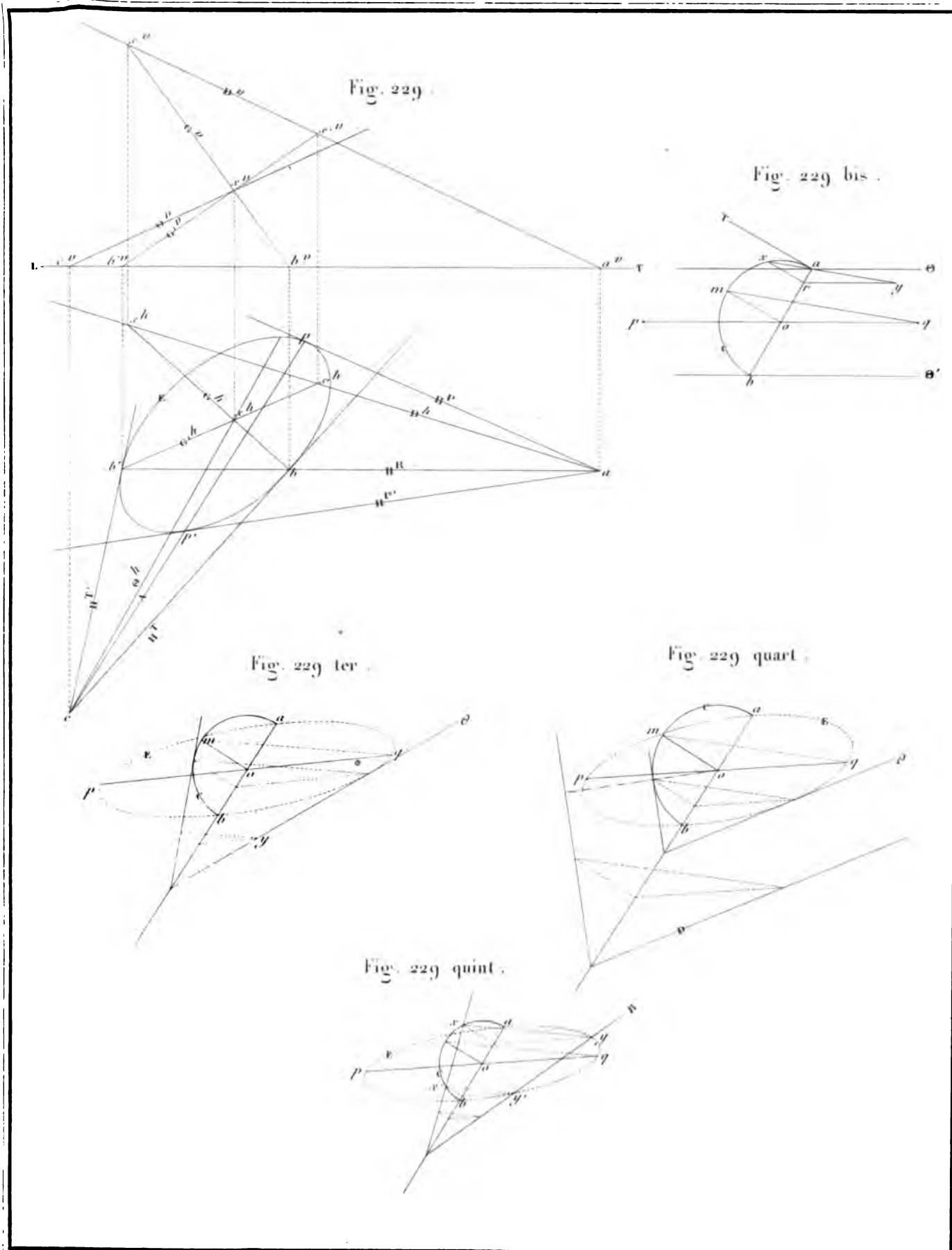


Fig. 228 .



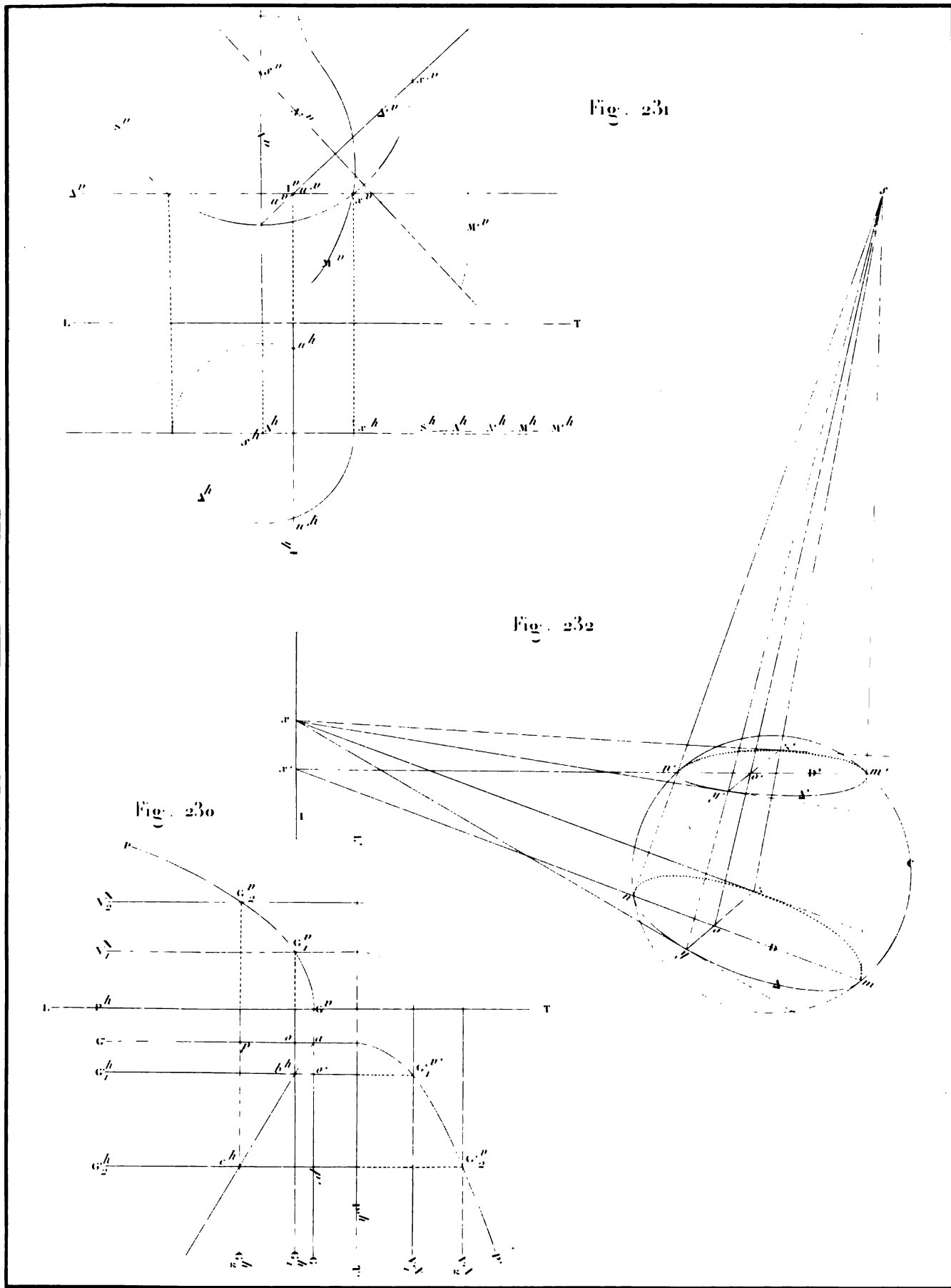


Fig. 233

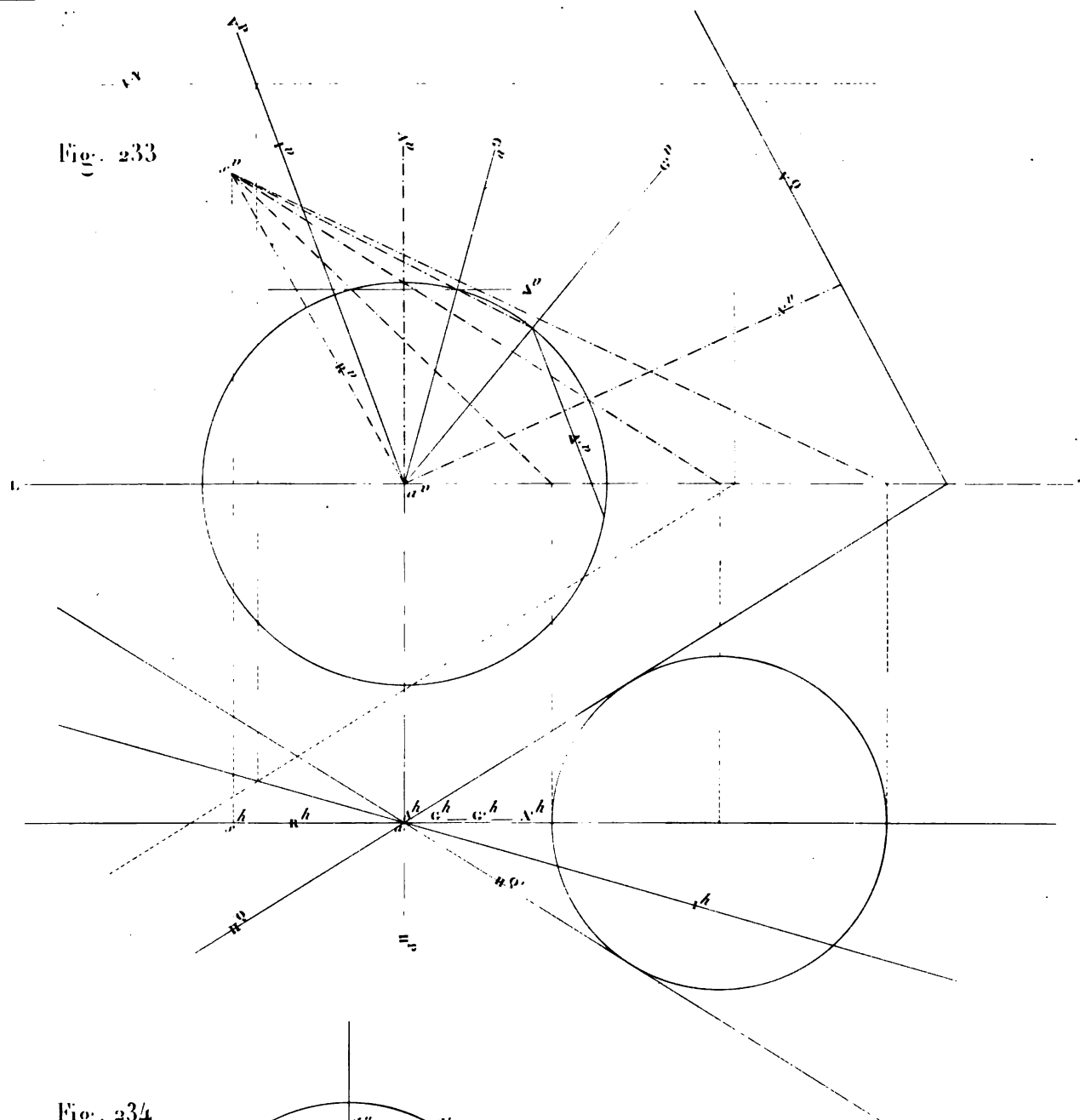
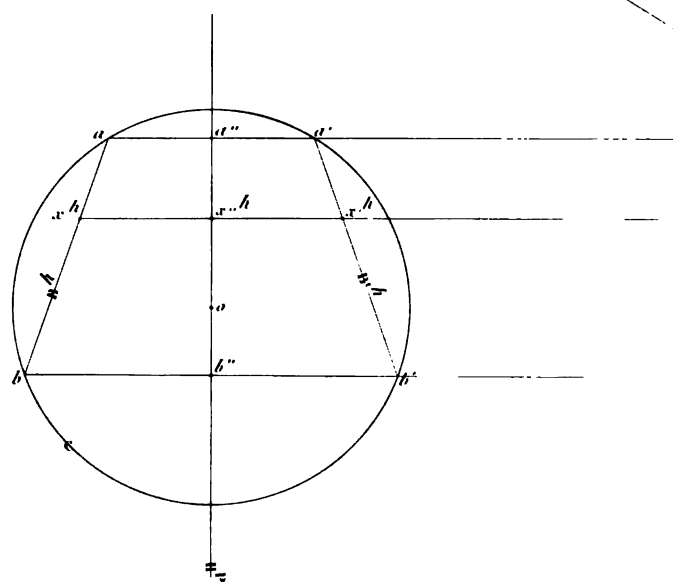
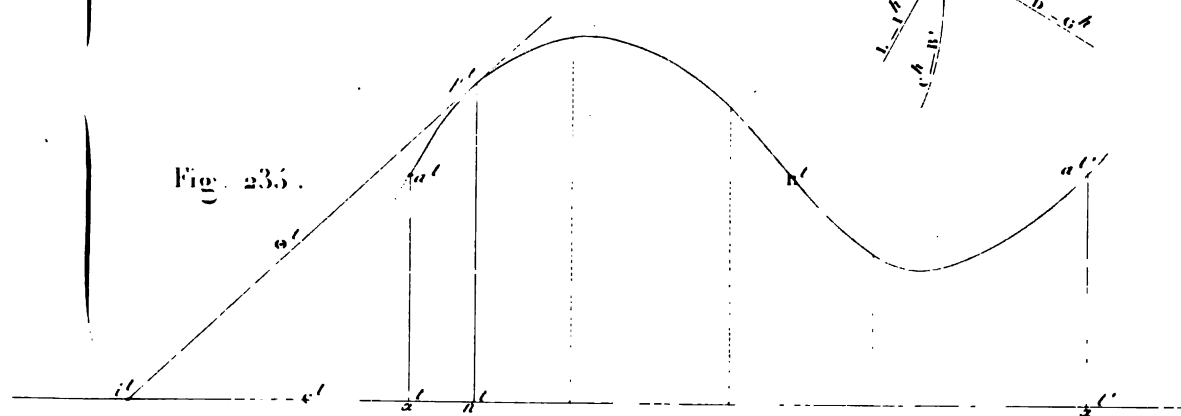
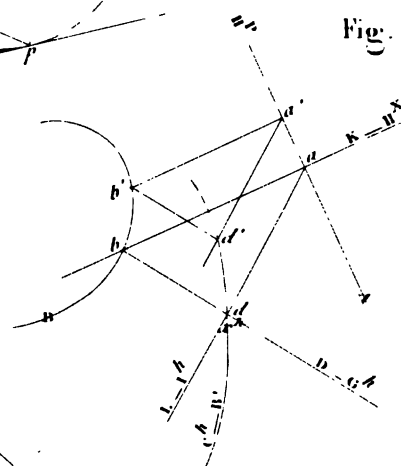
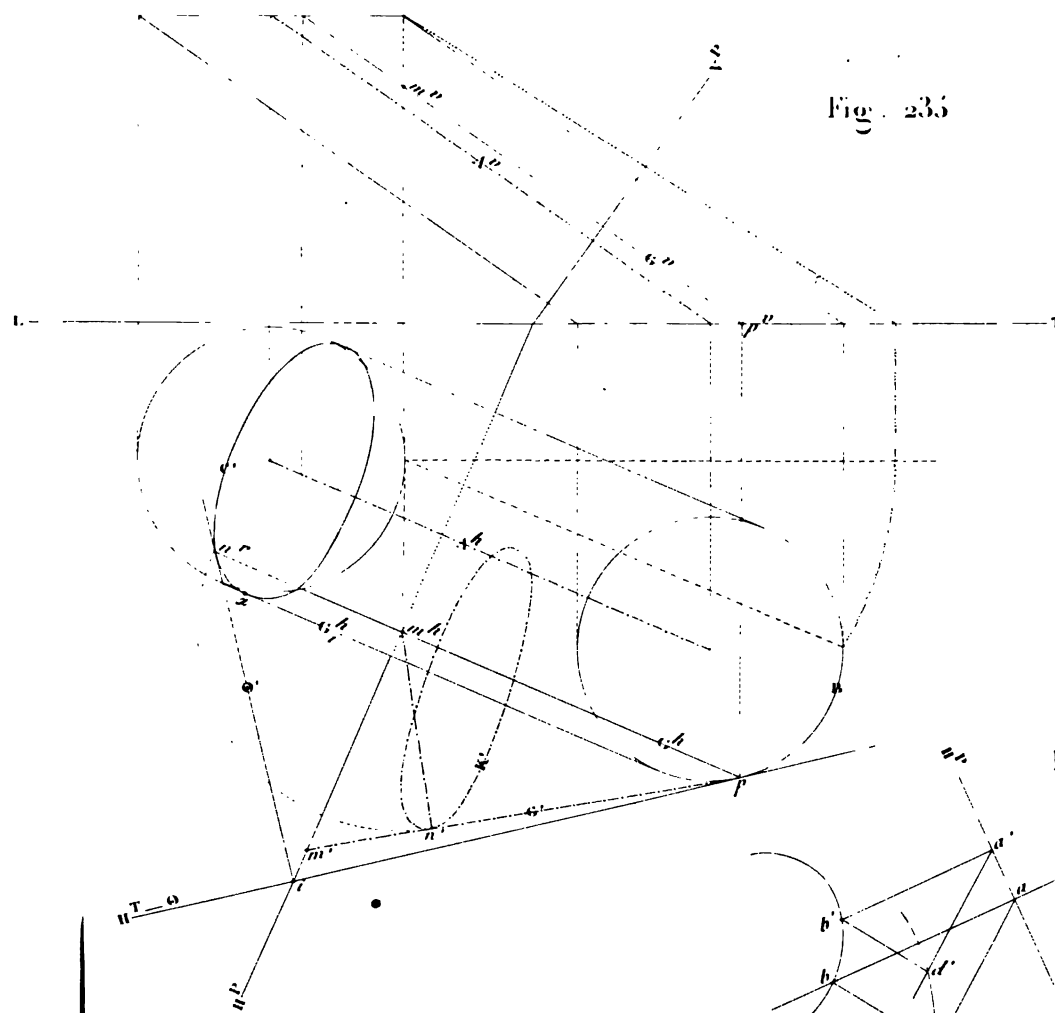


Fig. 234





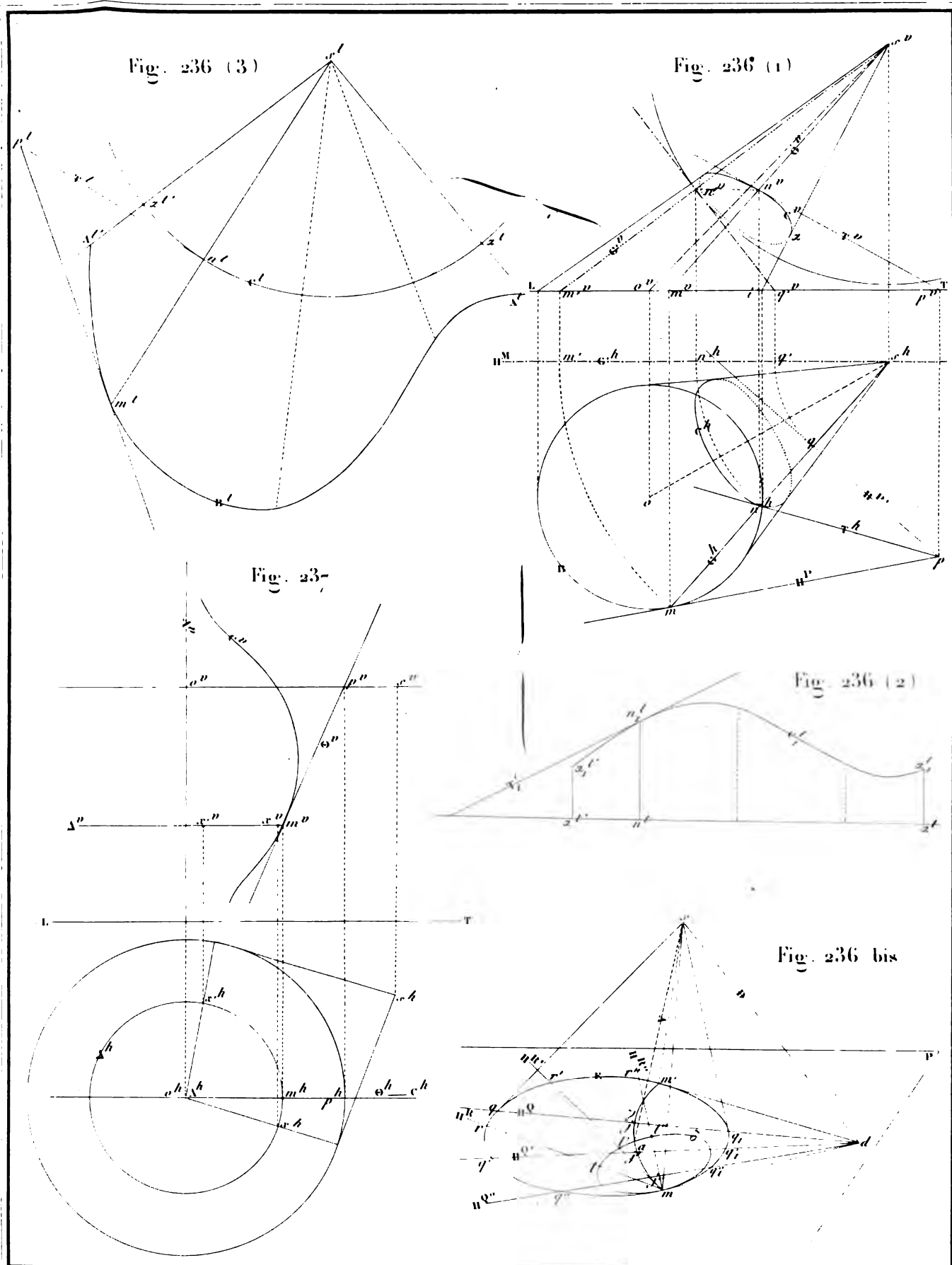


Fig. 238

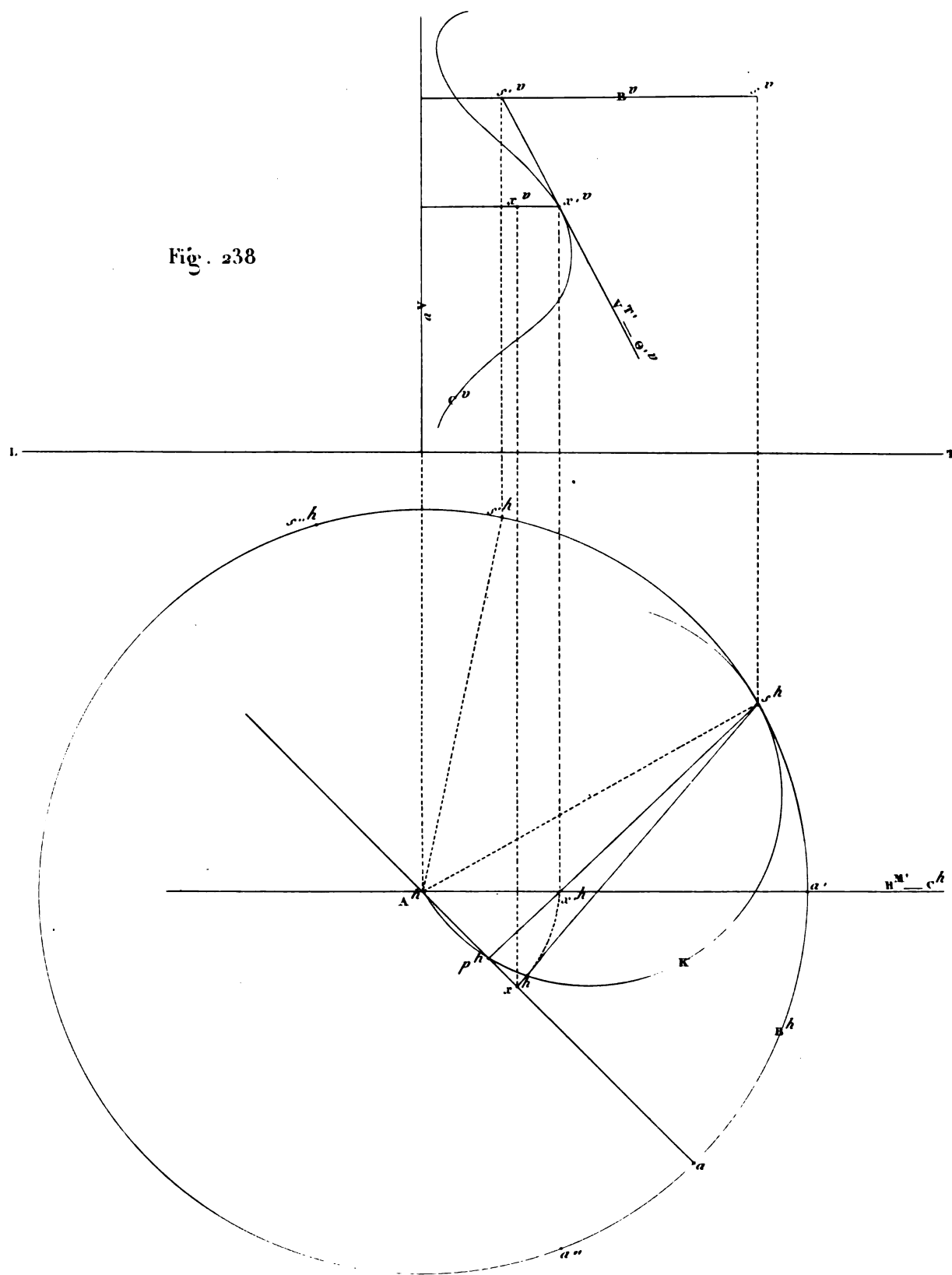


Fig. 239

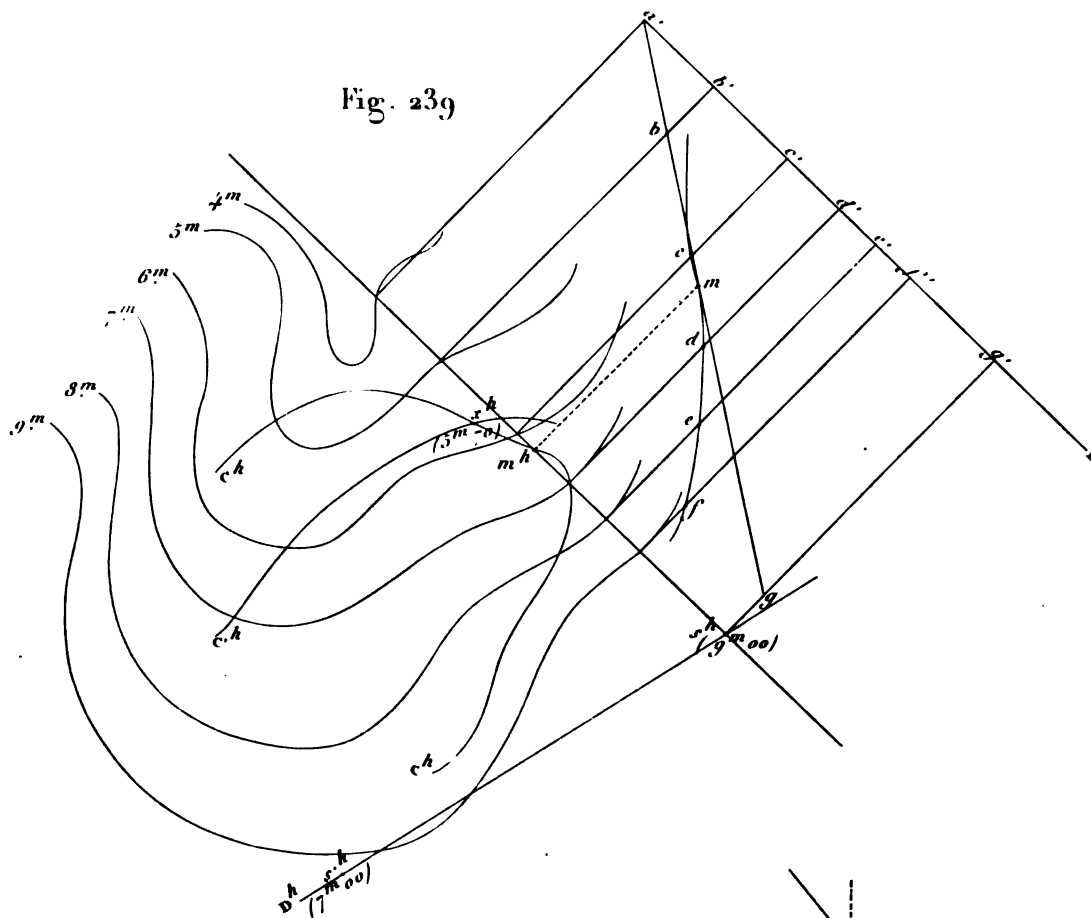


Fig. 240

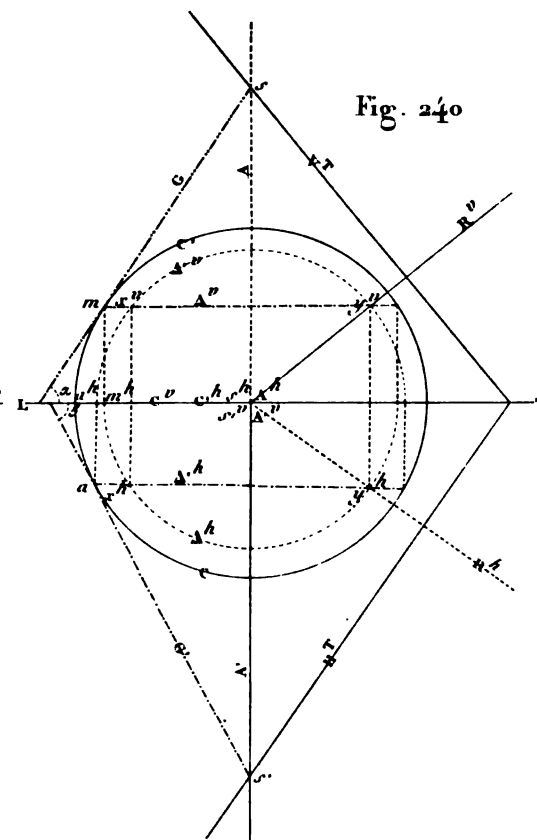


Fig. 240 bis

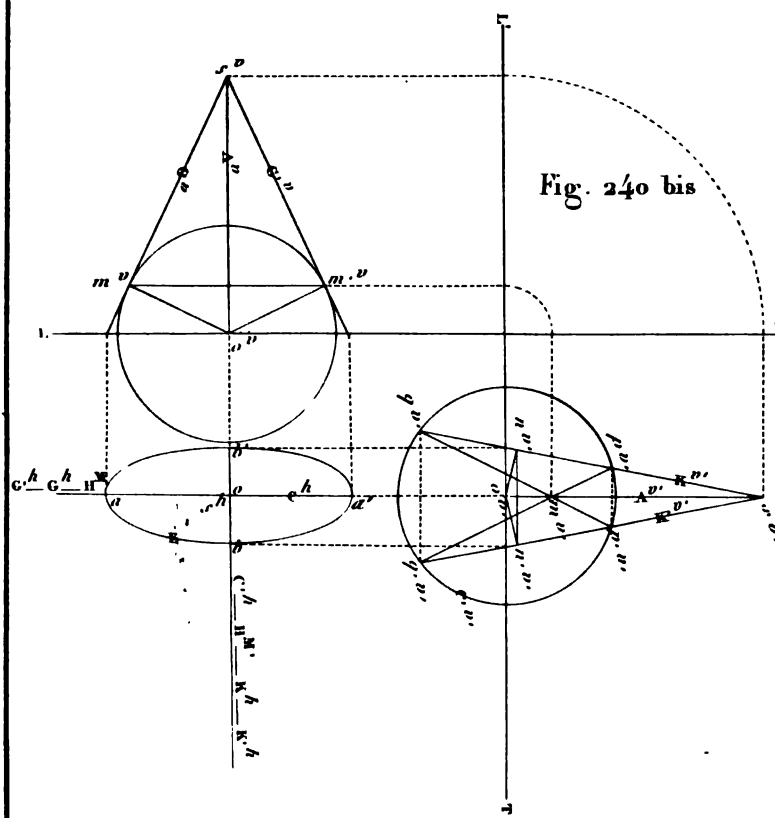


Fig. 241

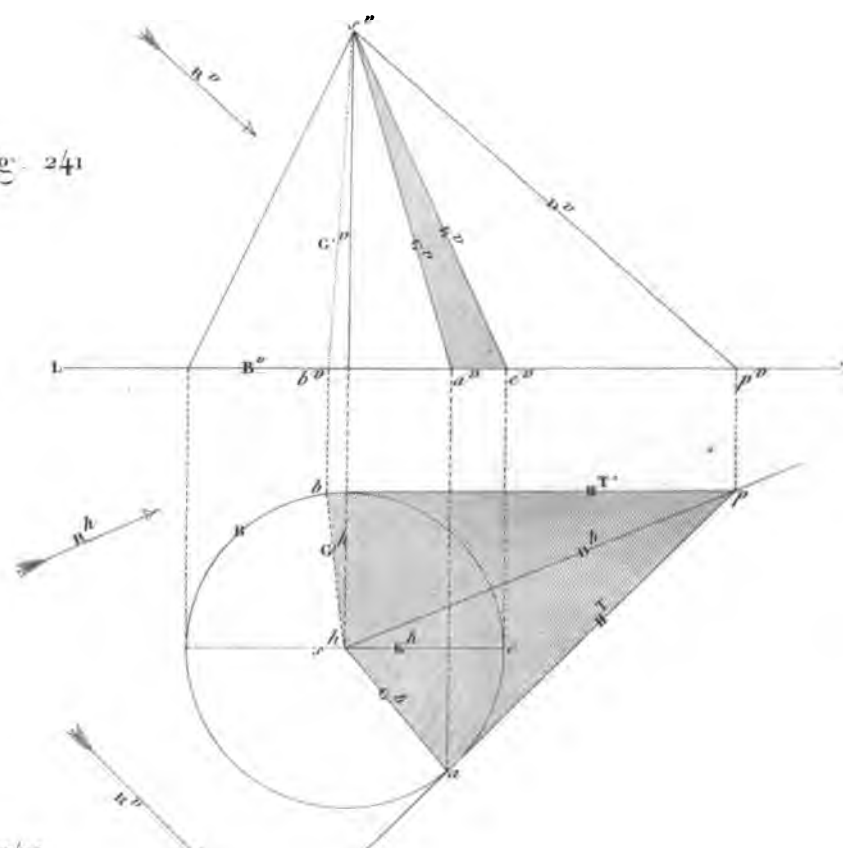


Fig. 242

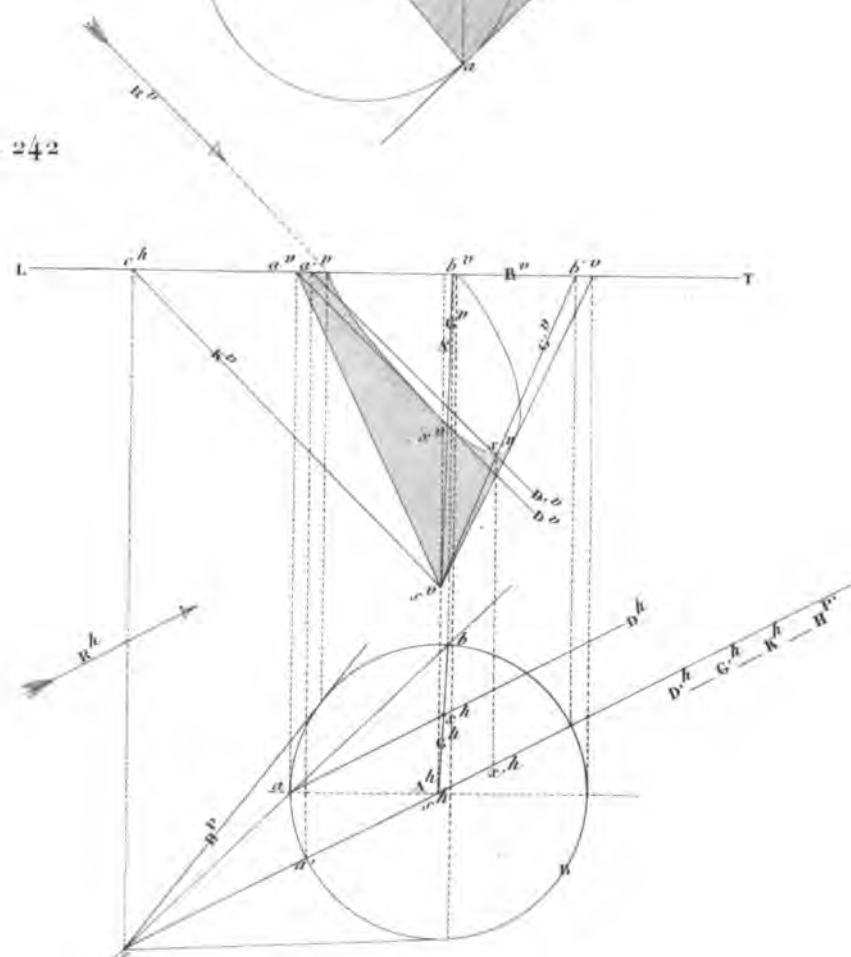
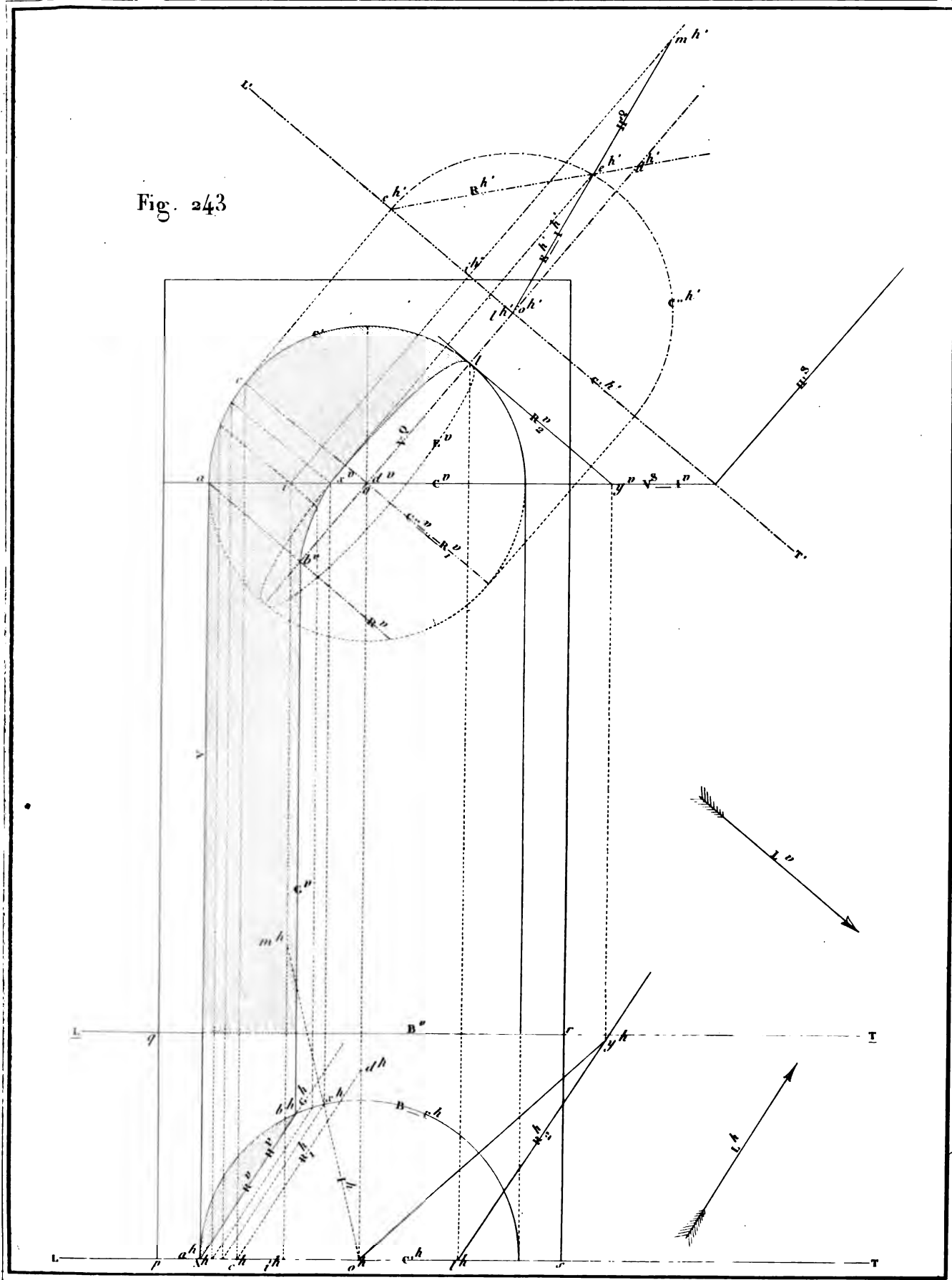


Fig. 243



Dessiné par Théodore Olivier.

Hibon Sculp.

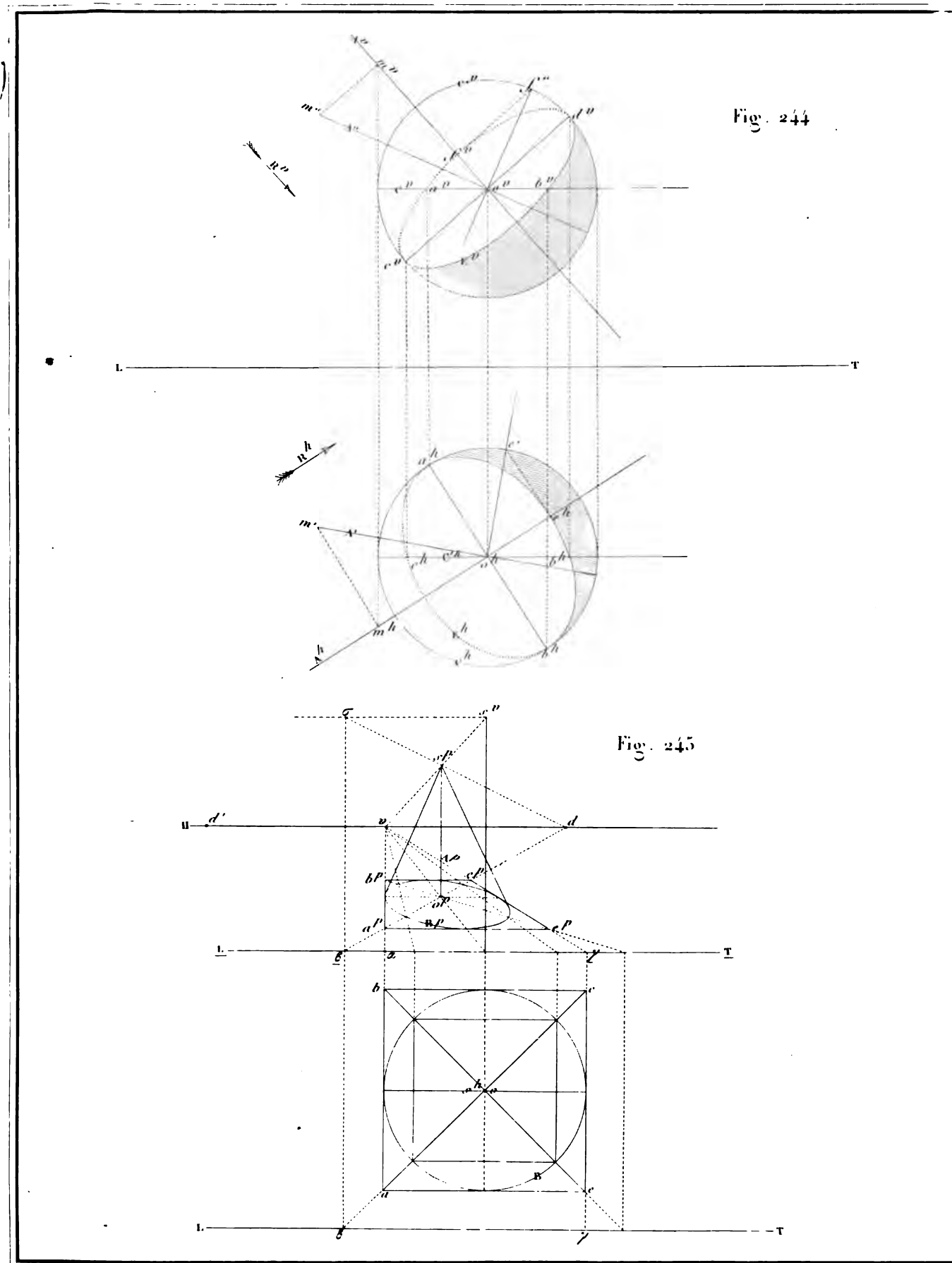




Fig. 246

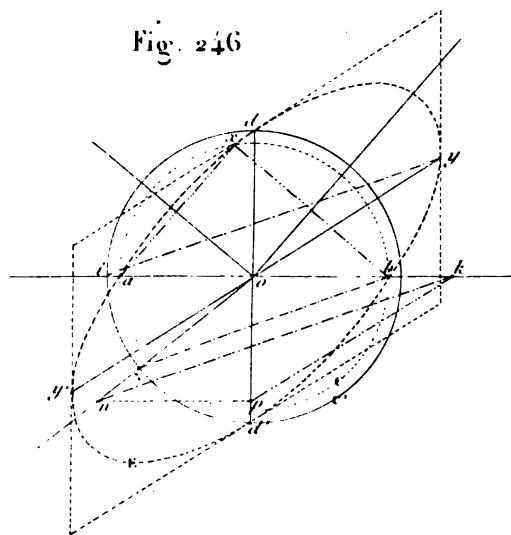


Fig. 247

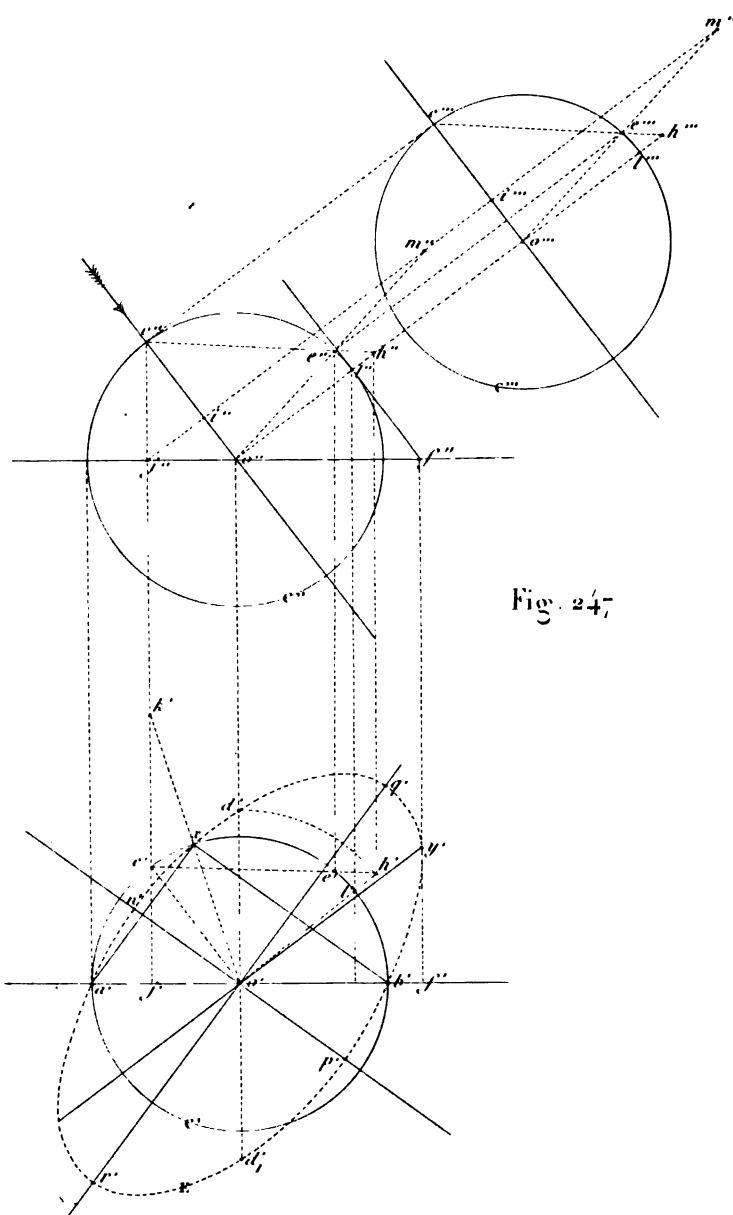


Fig. 248

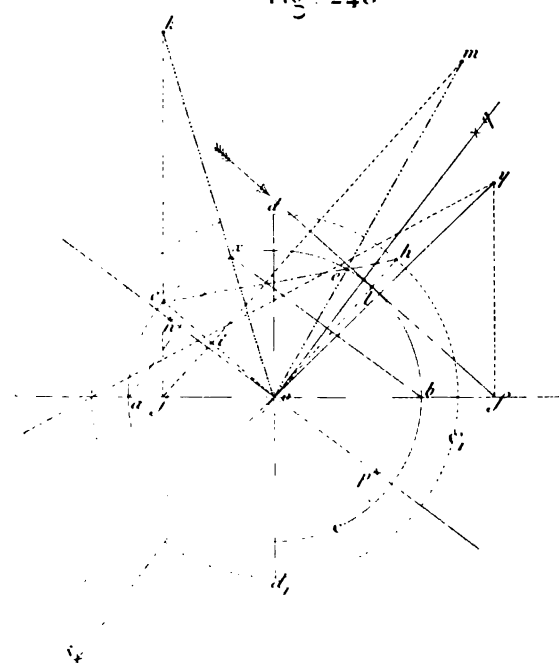
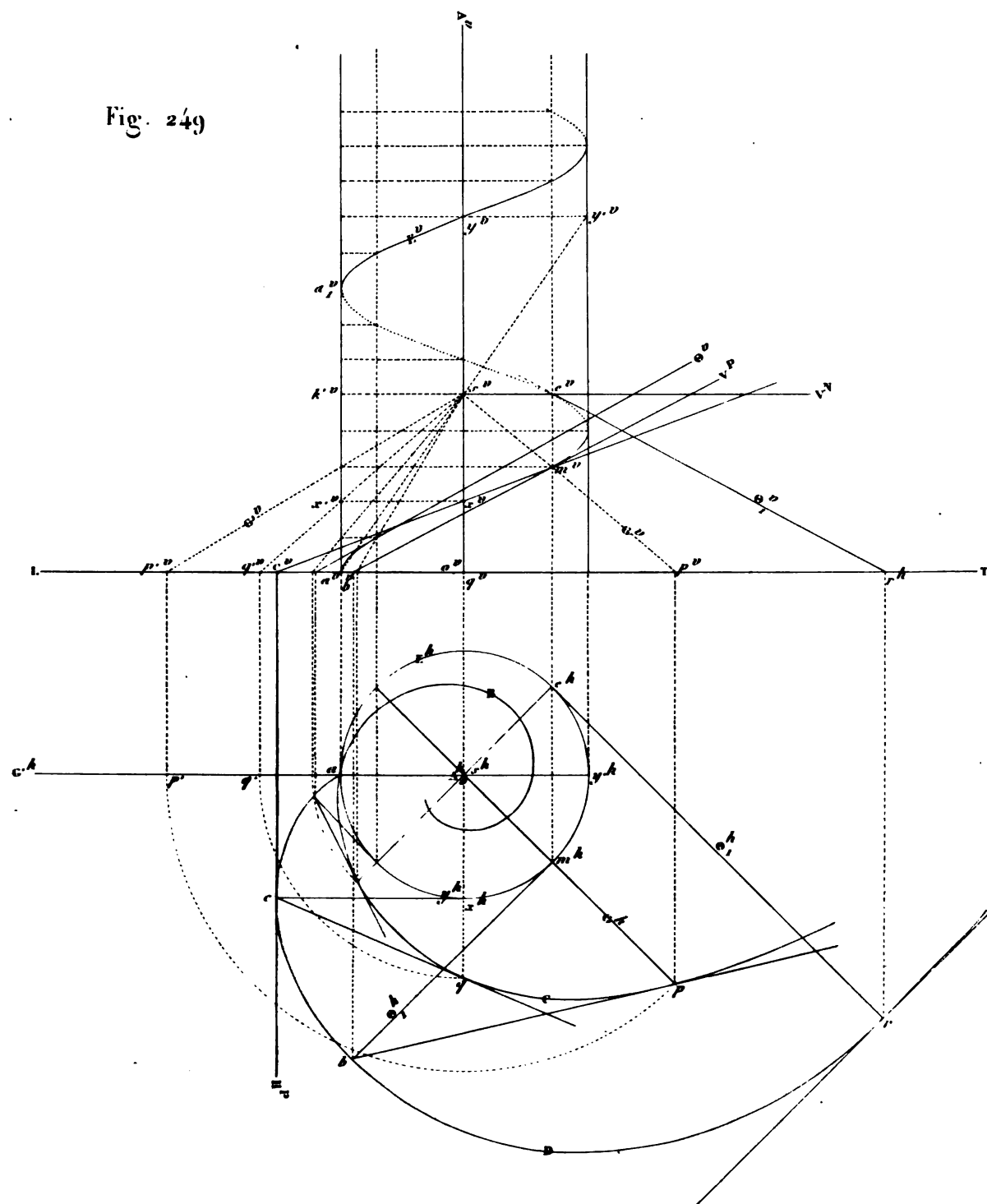


Fig. 249



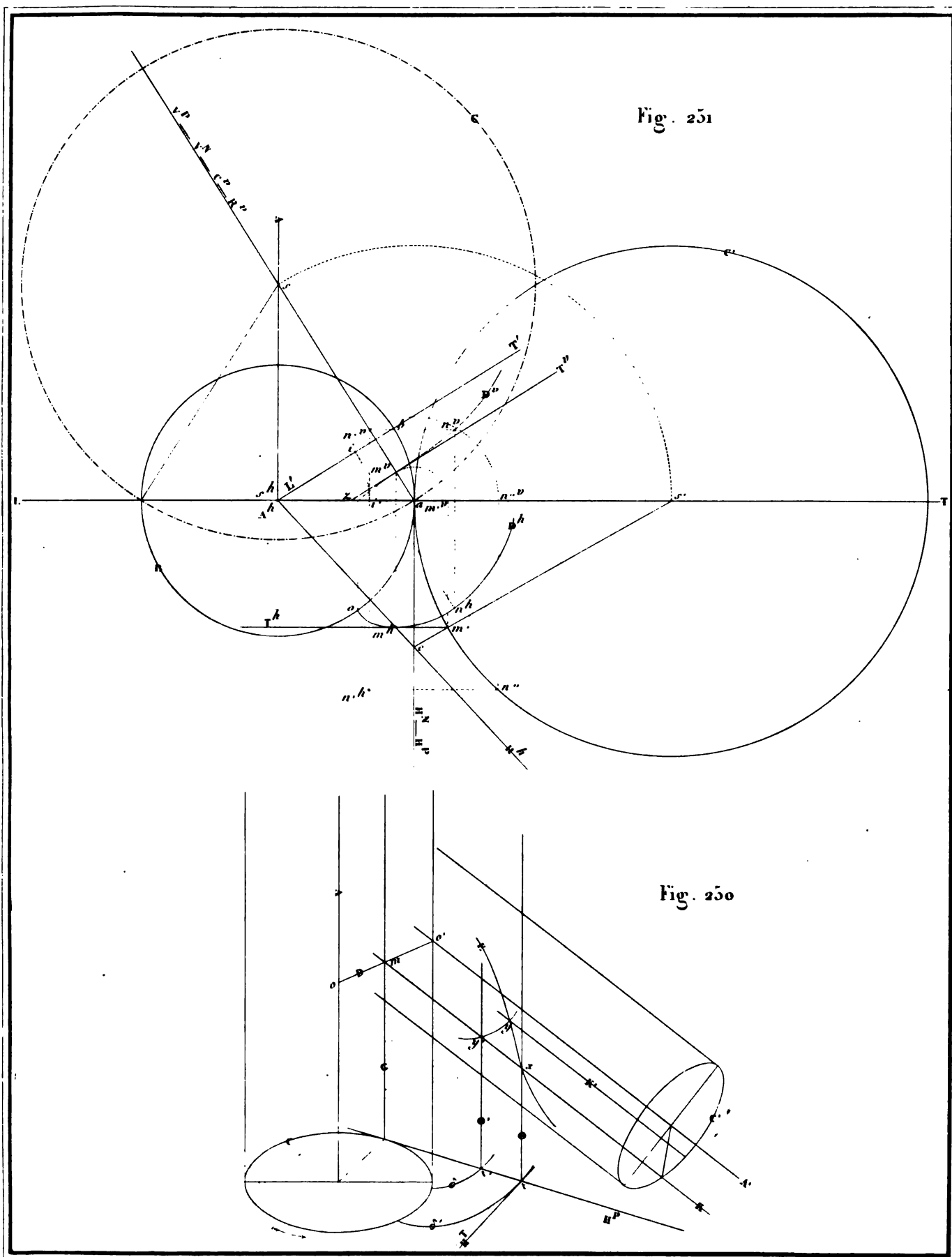


Fig. 252

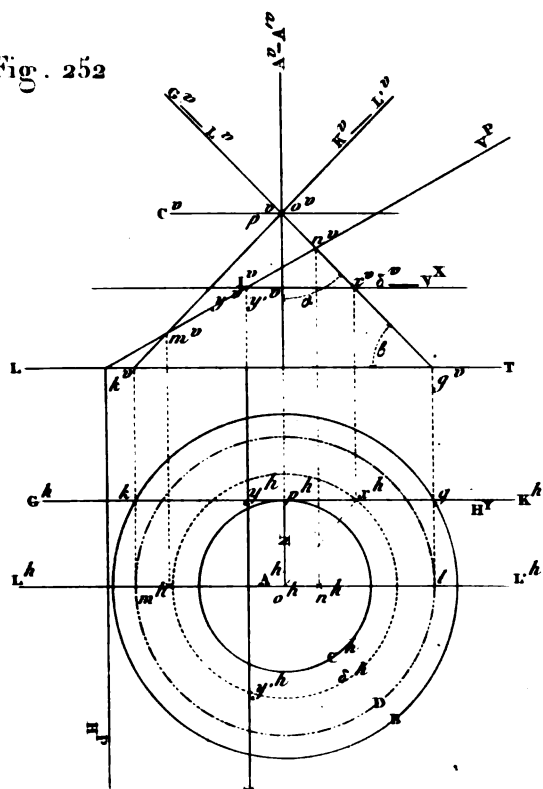


Fig. 253

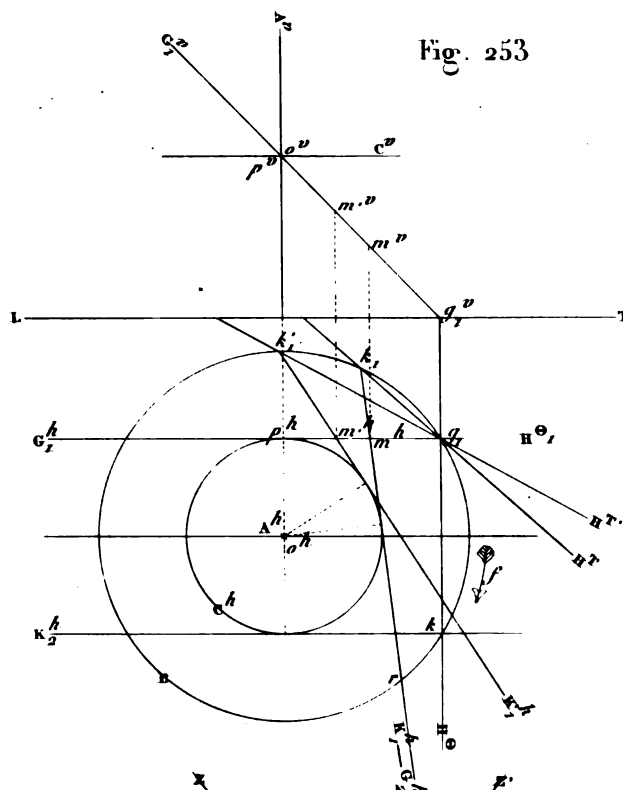


Fig. 254
(255)

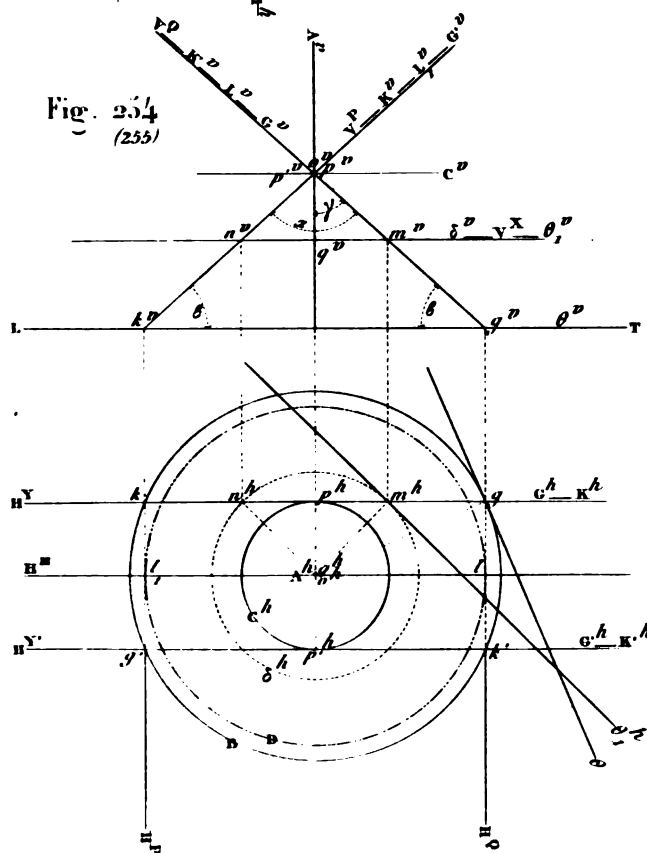


Fig. 255 •

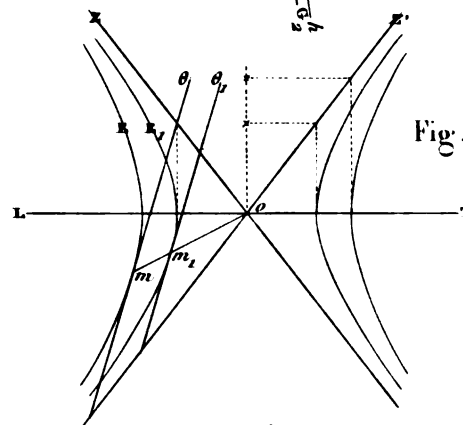
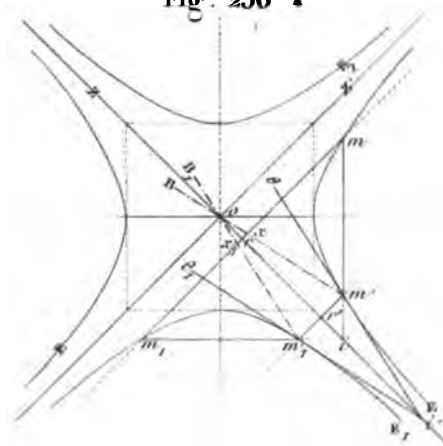


Fig. 256 .



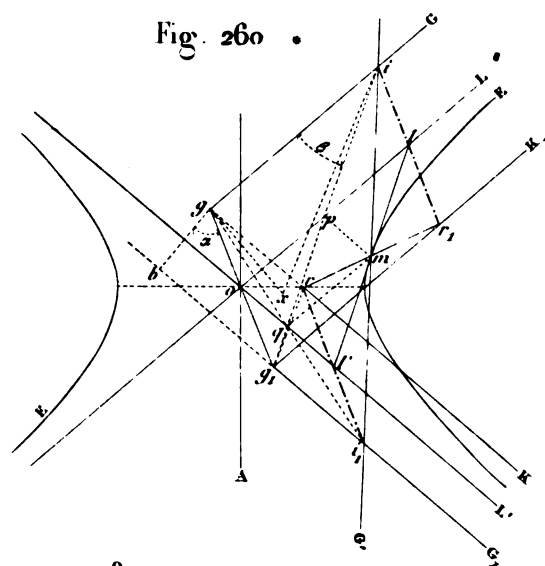
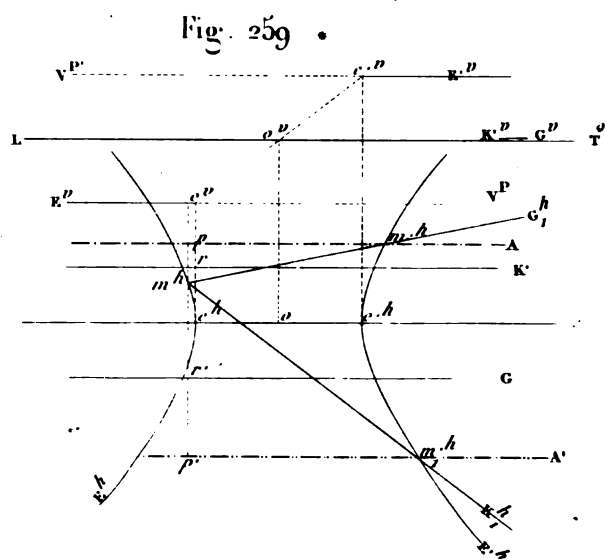
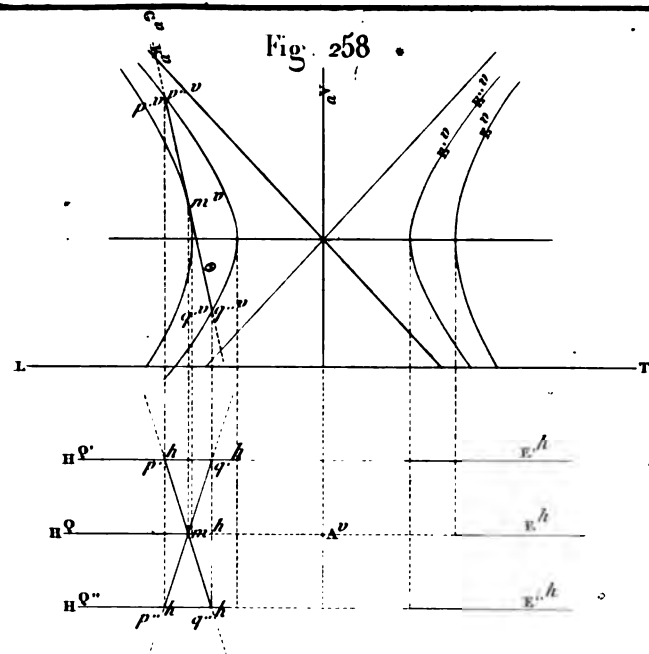
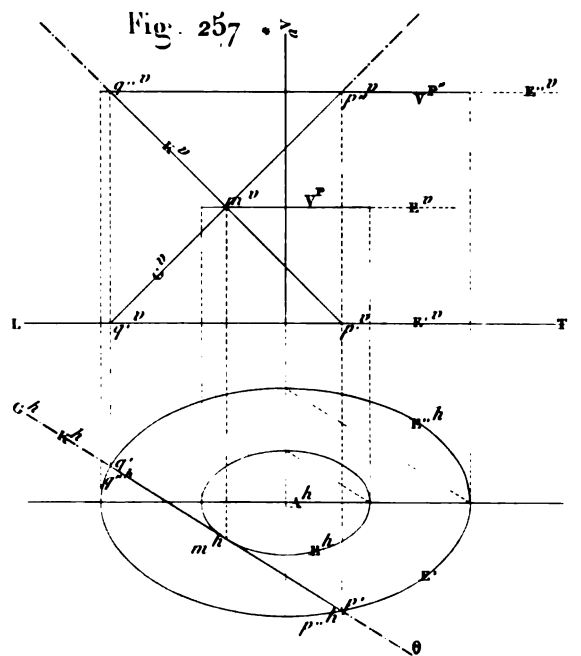


Fig. 261 .

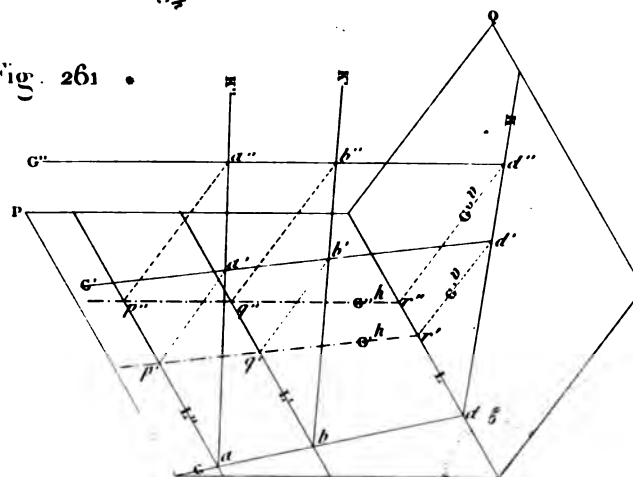




Fig. 262 .

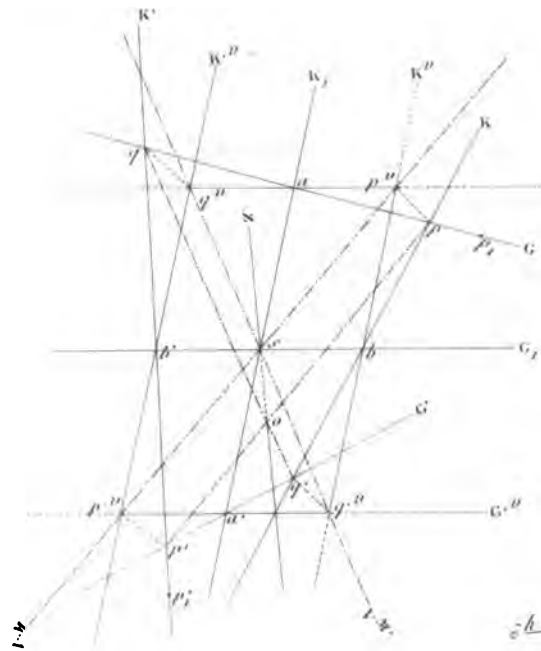


Fig. 263 .

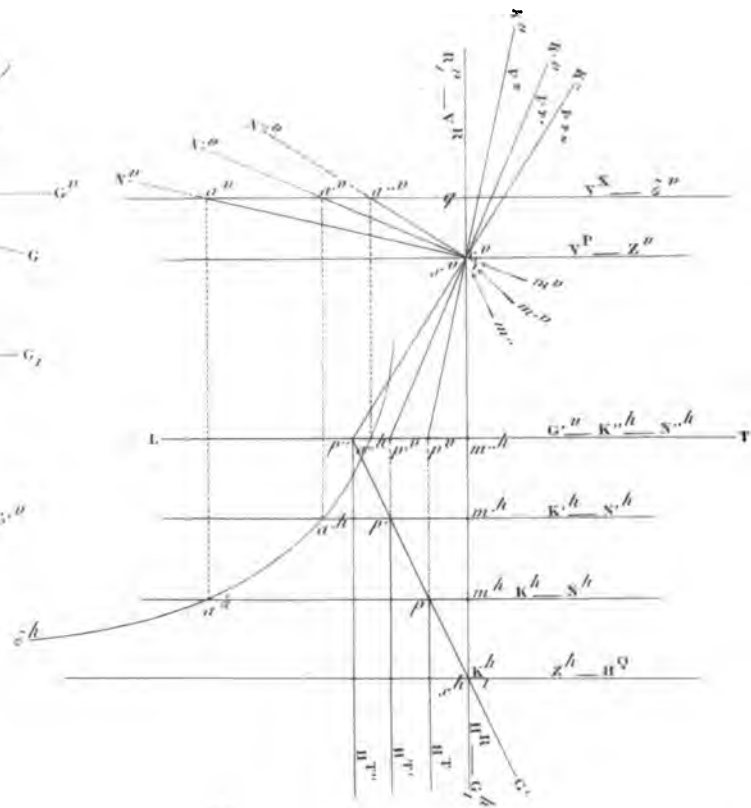


Fig. 264 .

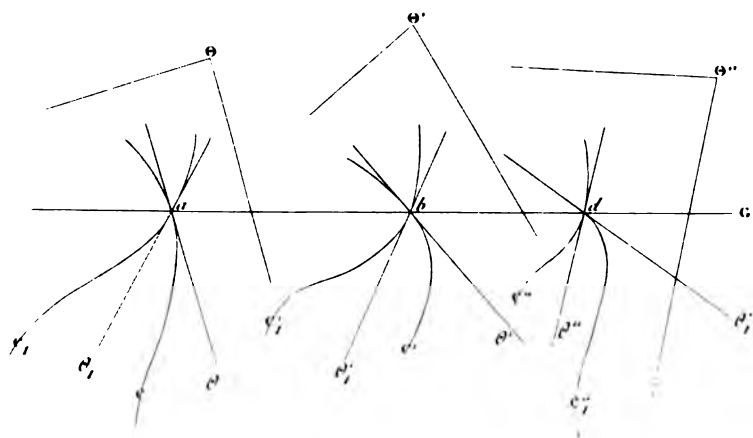


Fig. 265 .

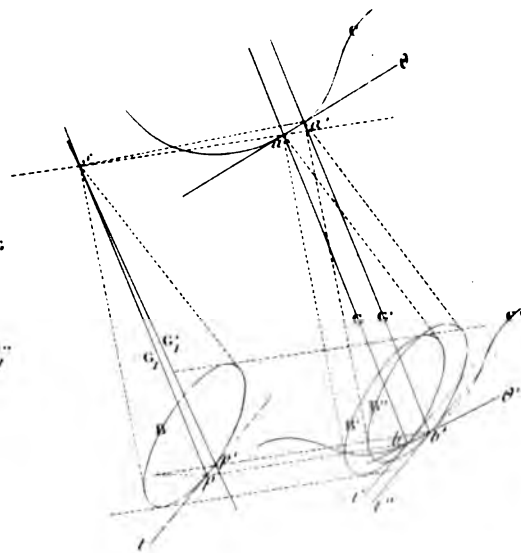


Fig. 270 .

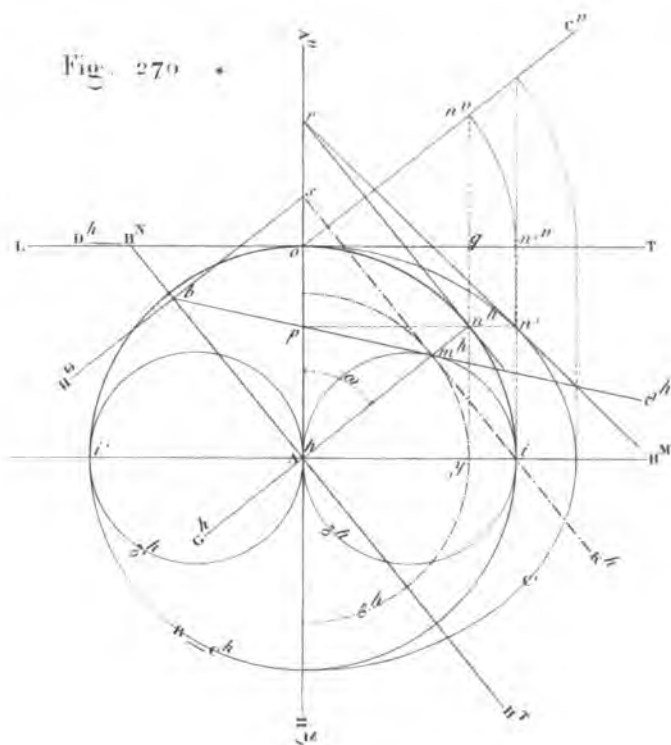


Fig. 271 .

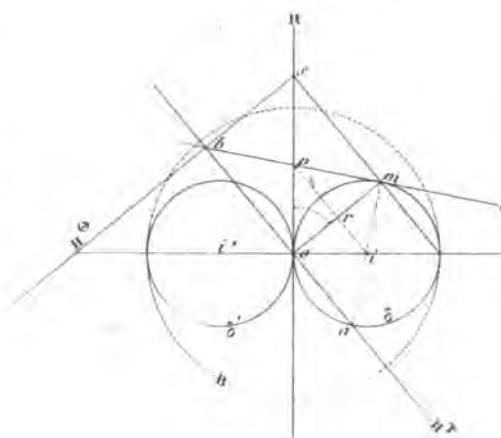


Fig. 272 .

Fig. 271 . (bis)

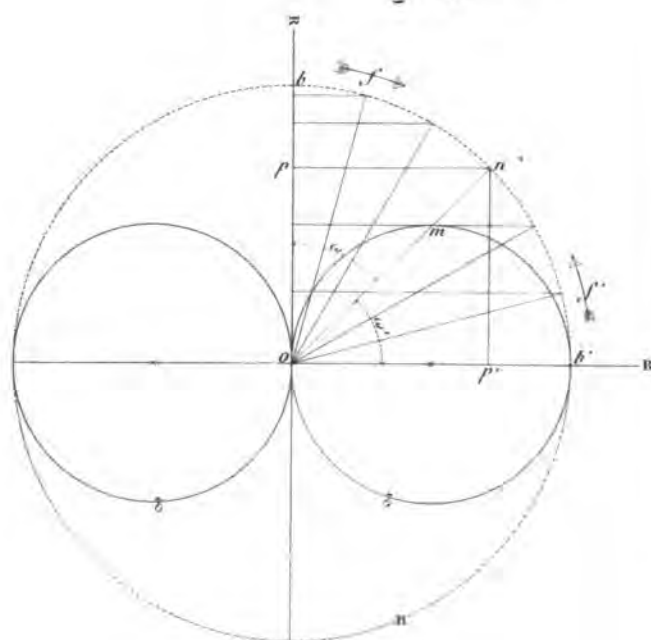
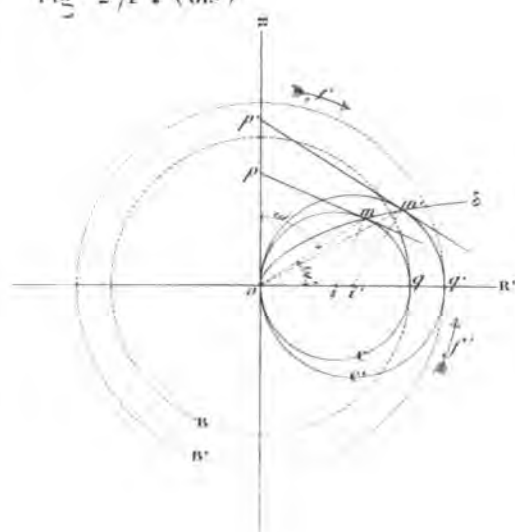


Fig. 273 .

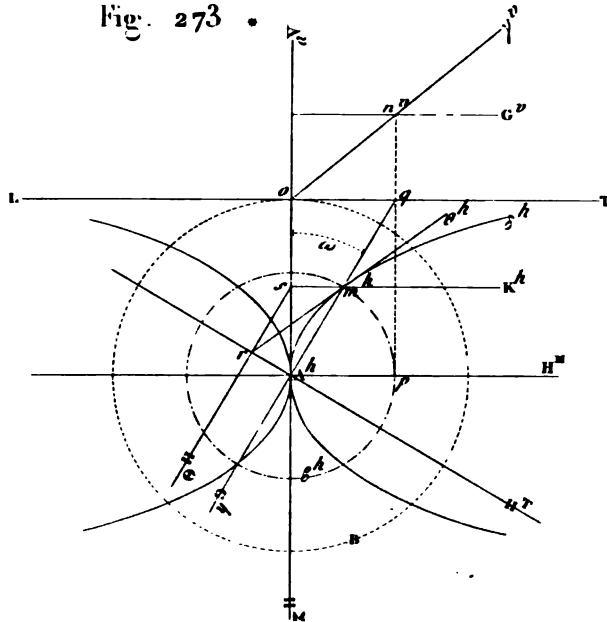


Fig. 274 .

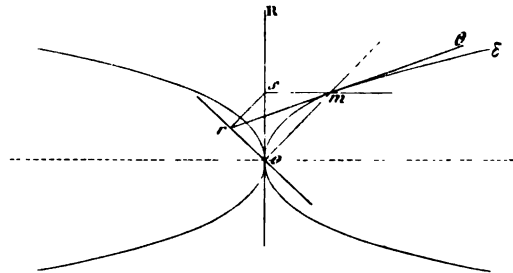


Fig. 275 .

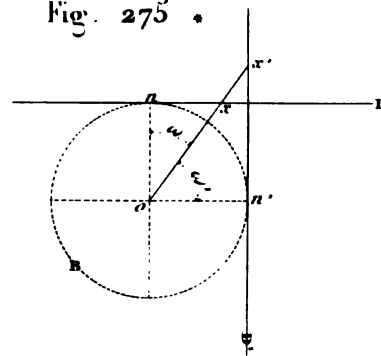


Fig. 276 .

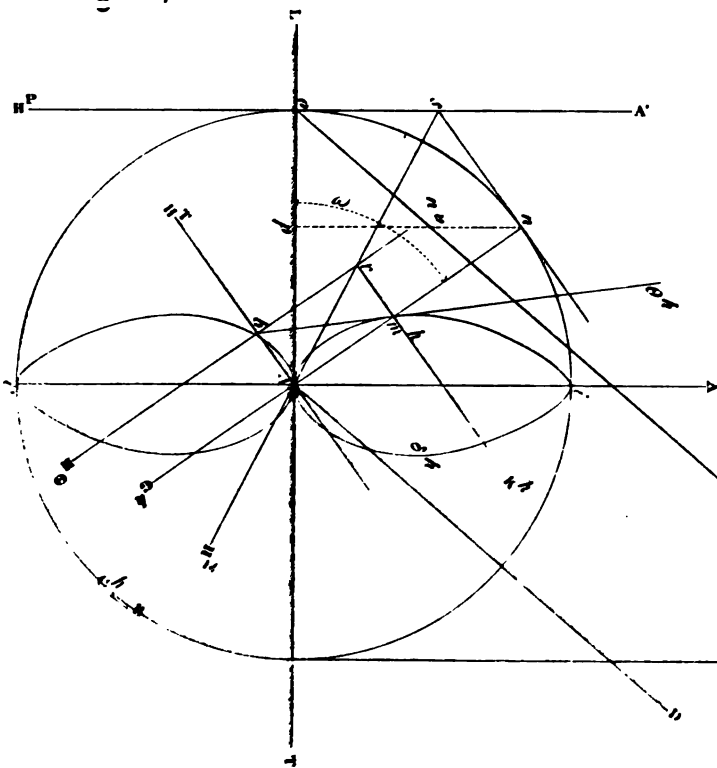


Fig. 277 .

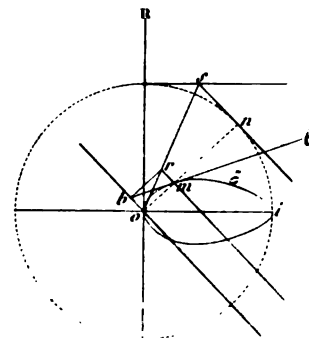


Fig. 281 .

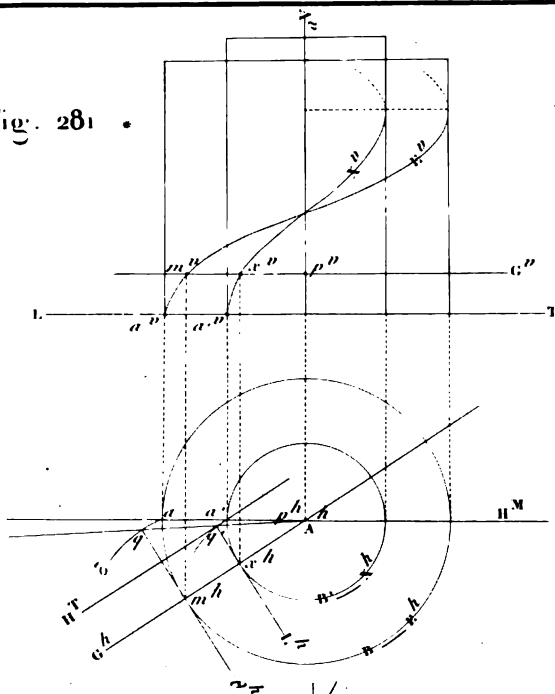


Fig. 283 .

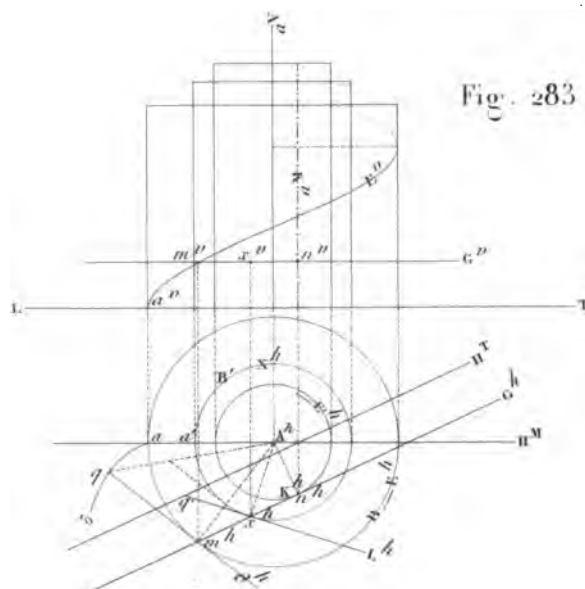


Fig. 282 .

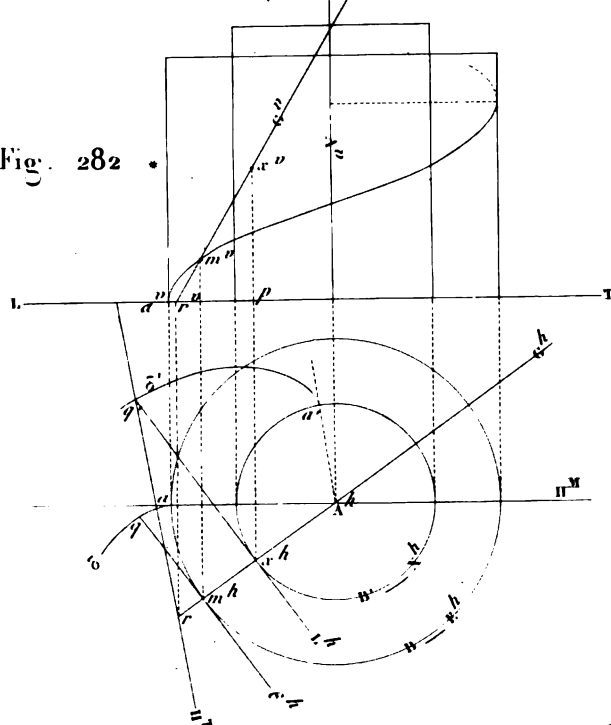


Fig. 284 .

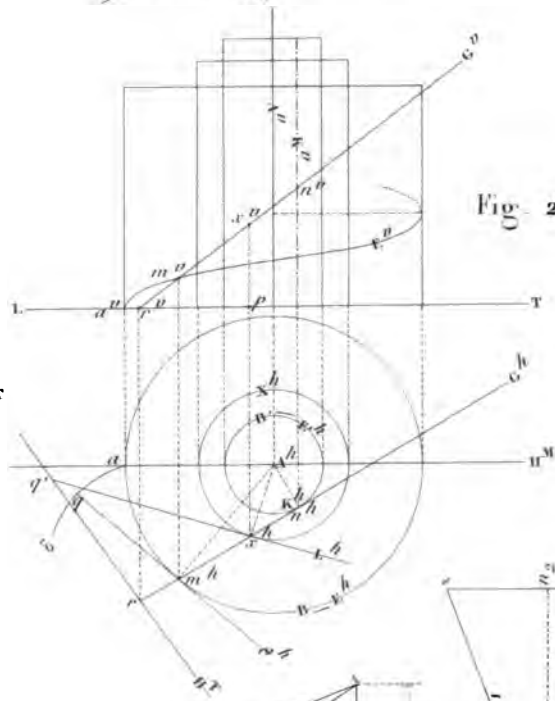


Fig. 282 bis .

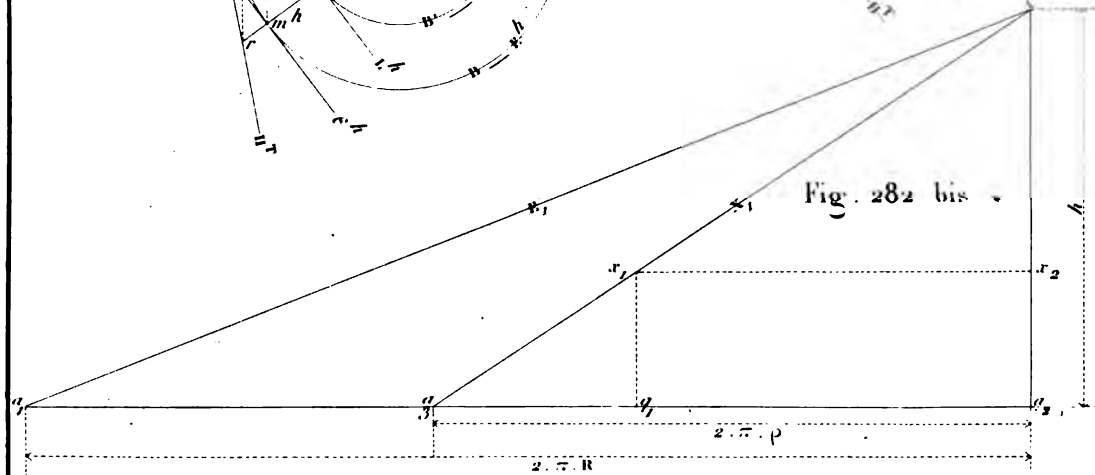


Fig. 284 bis .

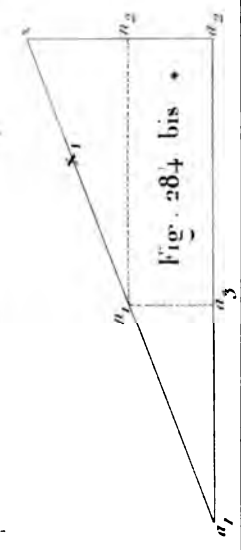


Fig. 285.

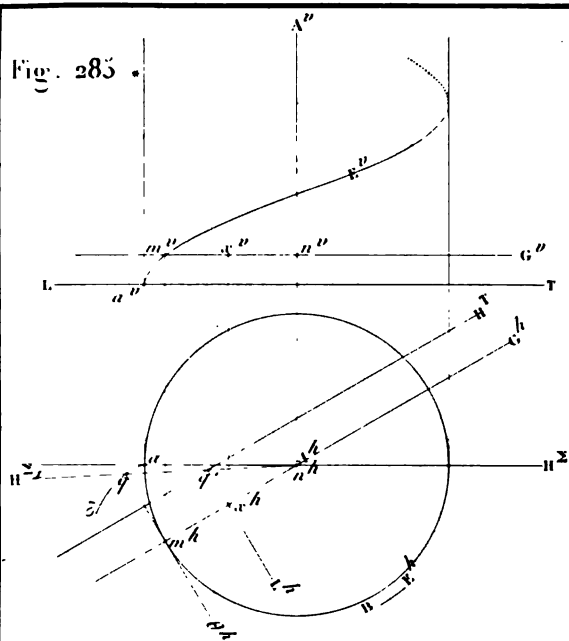


Fig. 286.

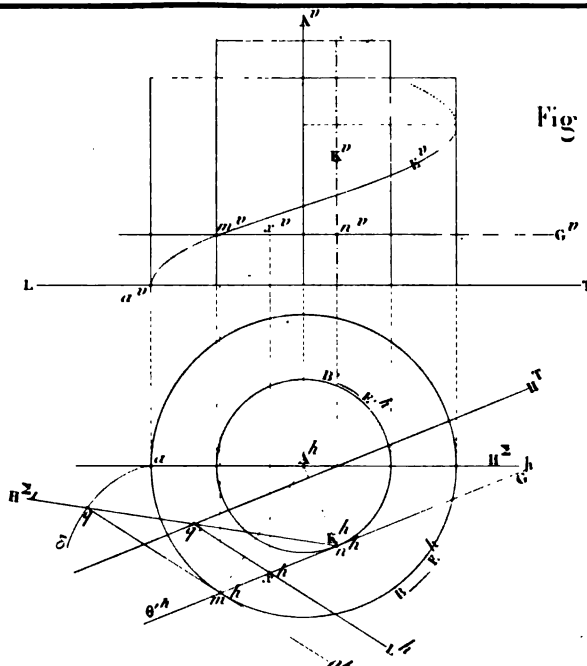


Fig. 287.

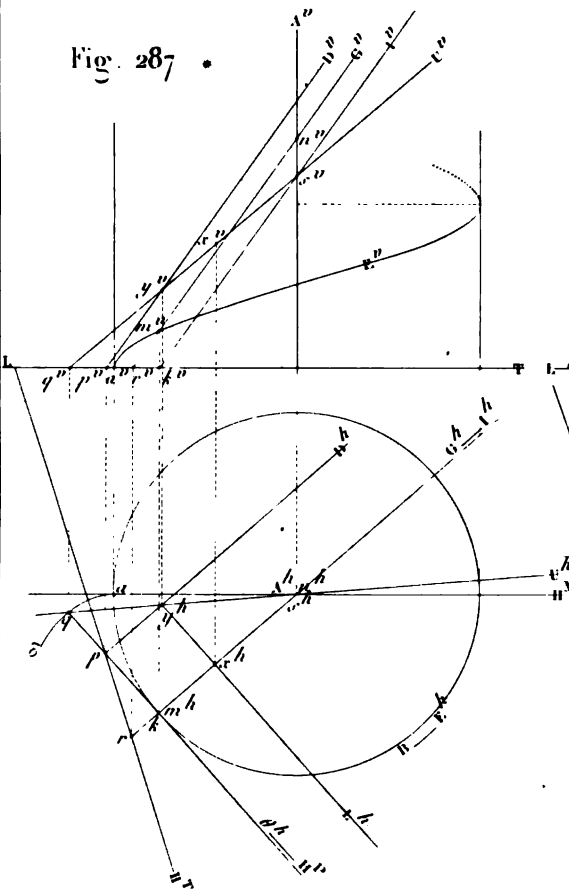


Fig. 288.

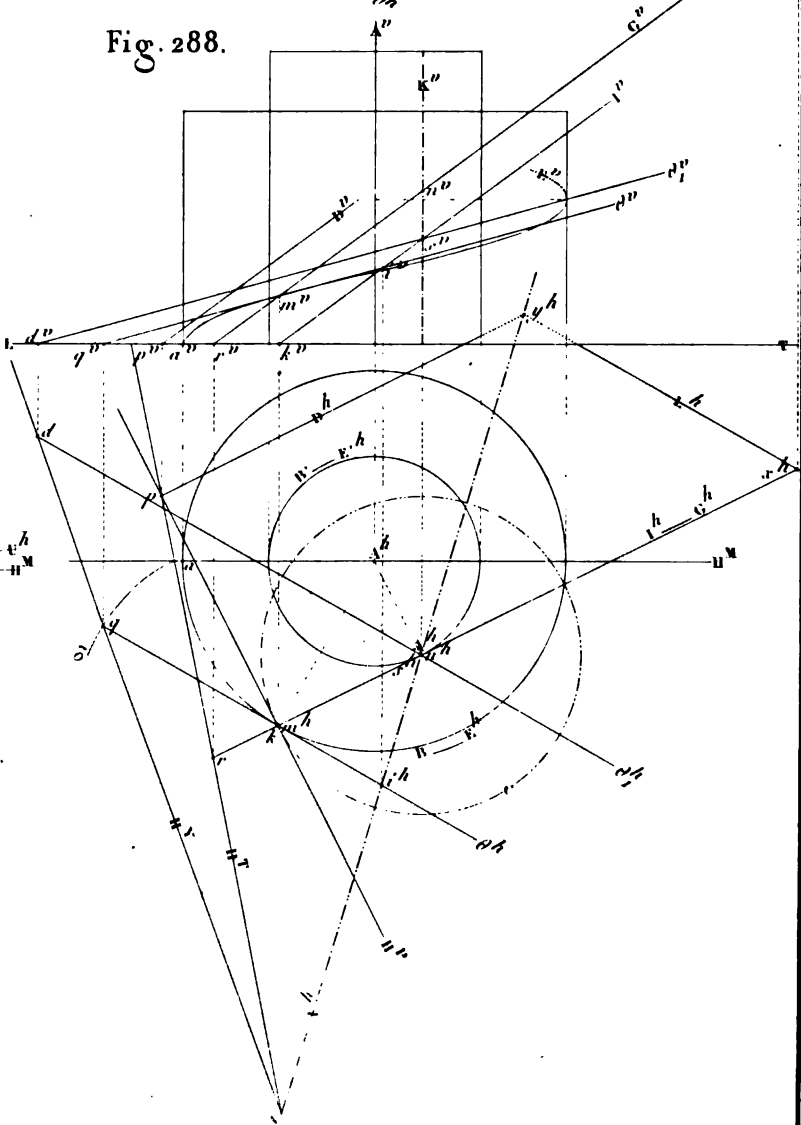


Fig. 289 .

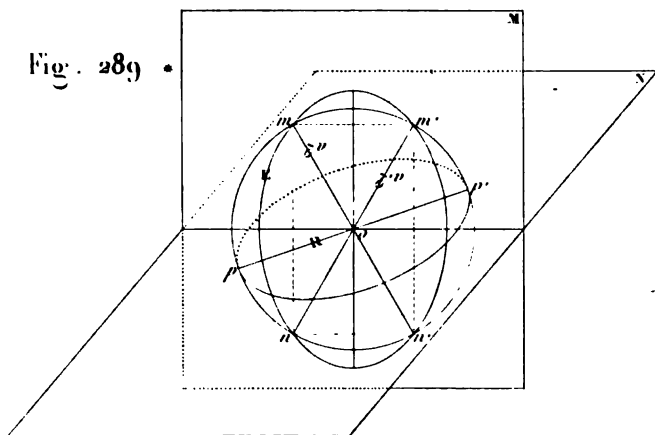


Fig. 290 (1) .

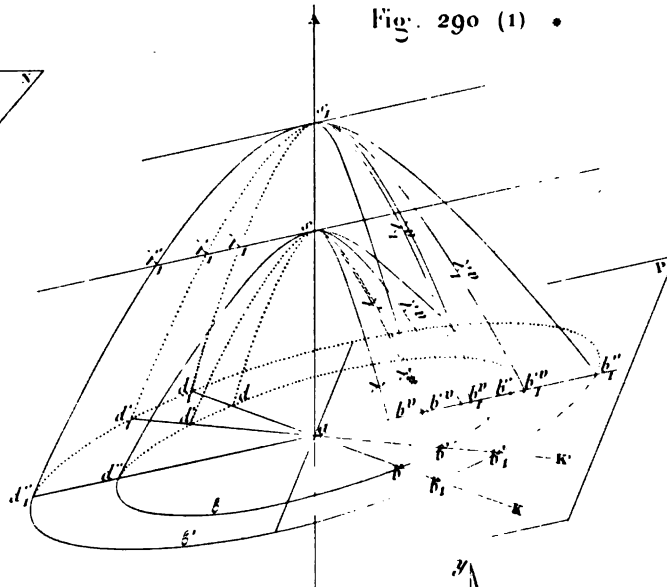


Fig. 291 .

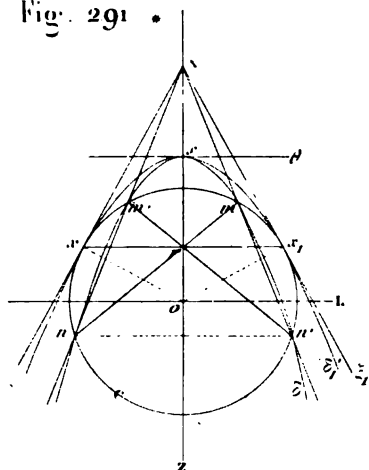


Fig. 292 .

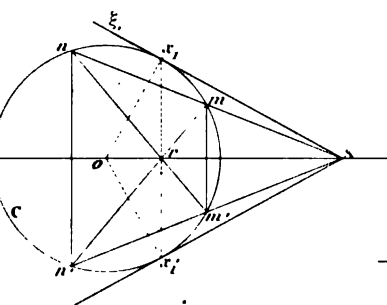


Fig. 290 (2) .

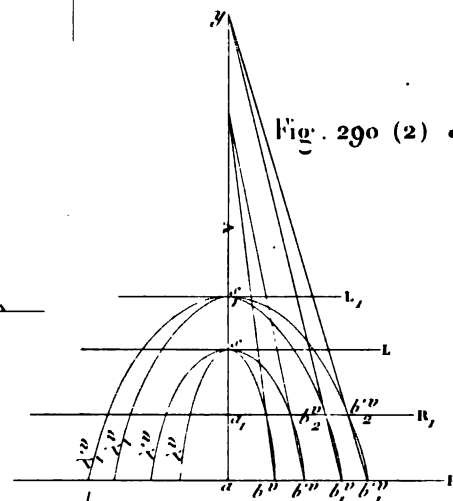


Fig. 293 .

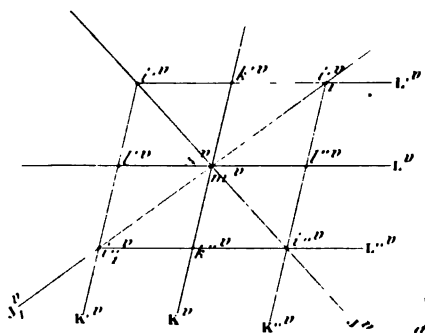


Fig. 294 .

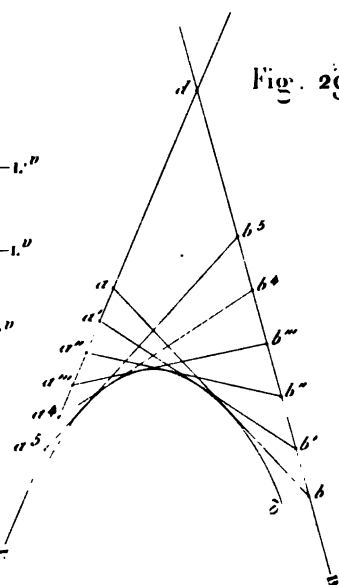


Fig. 295 .

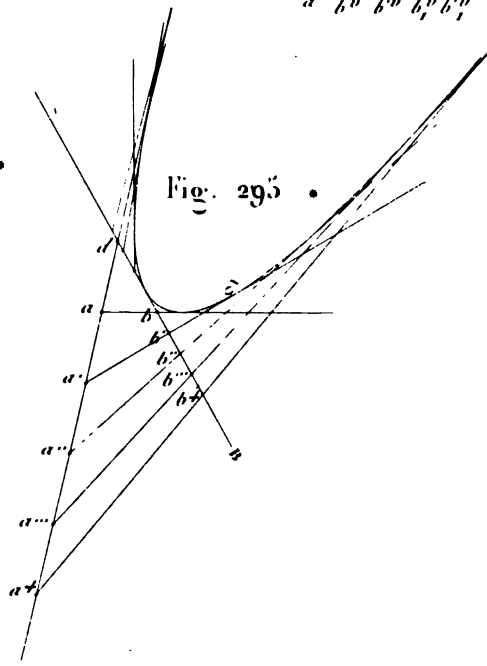


Fig. 296 .

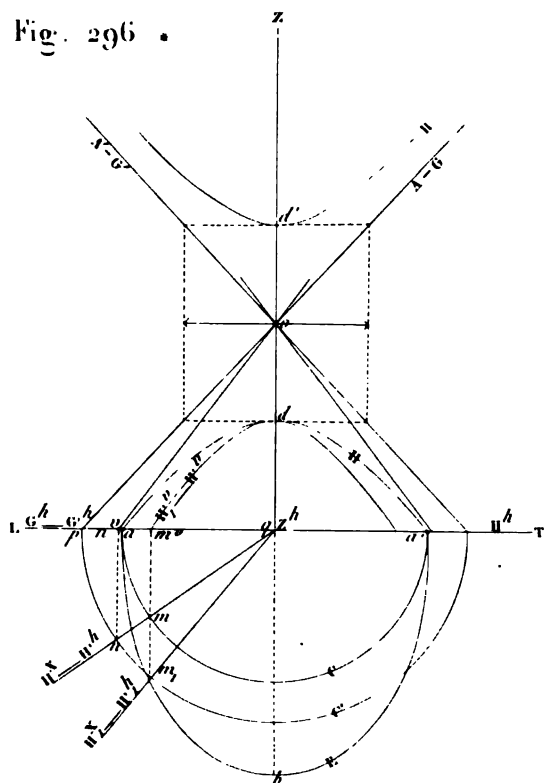


Fig. 297 .

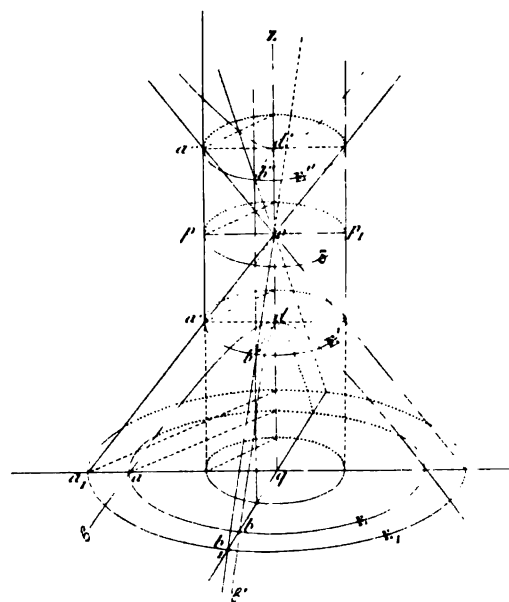


Fig. 299 .

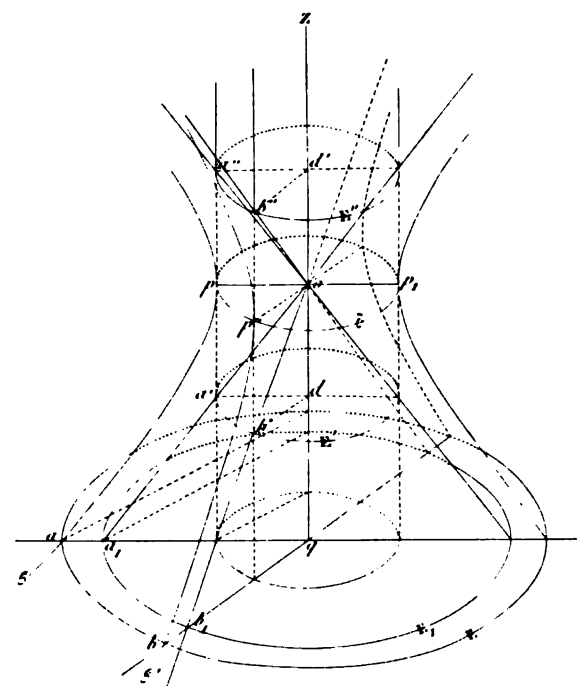


Fig. 298 .

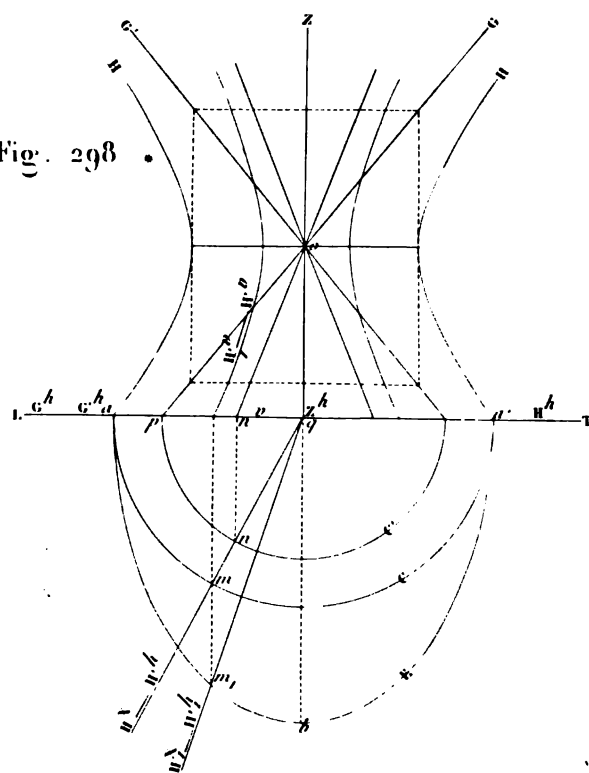


Fig. 301 . .

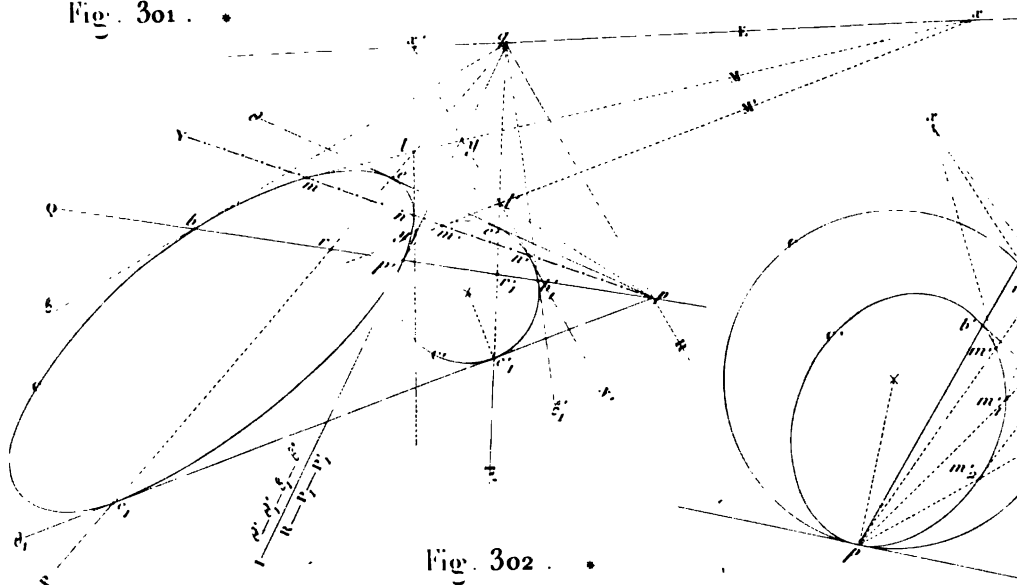


Fig. 304 . .

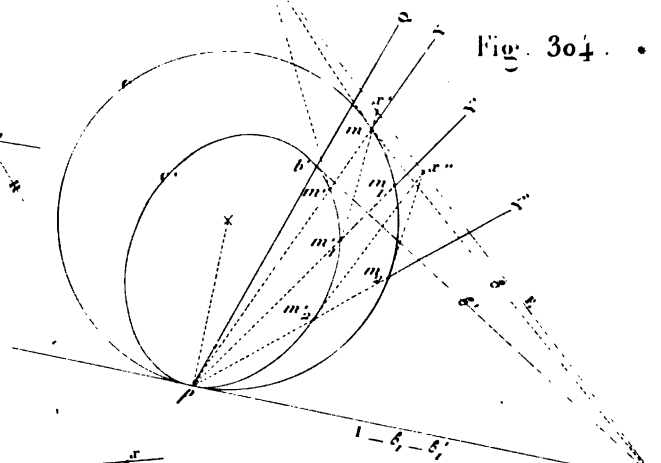


Fig. 302 . .

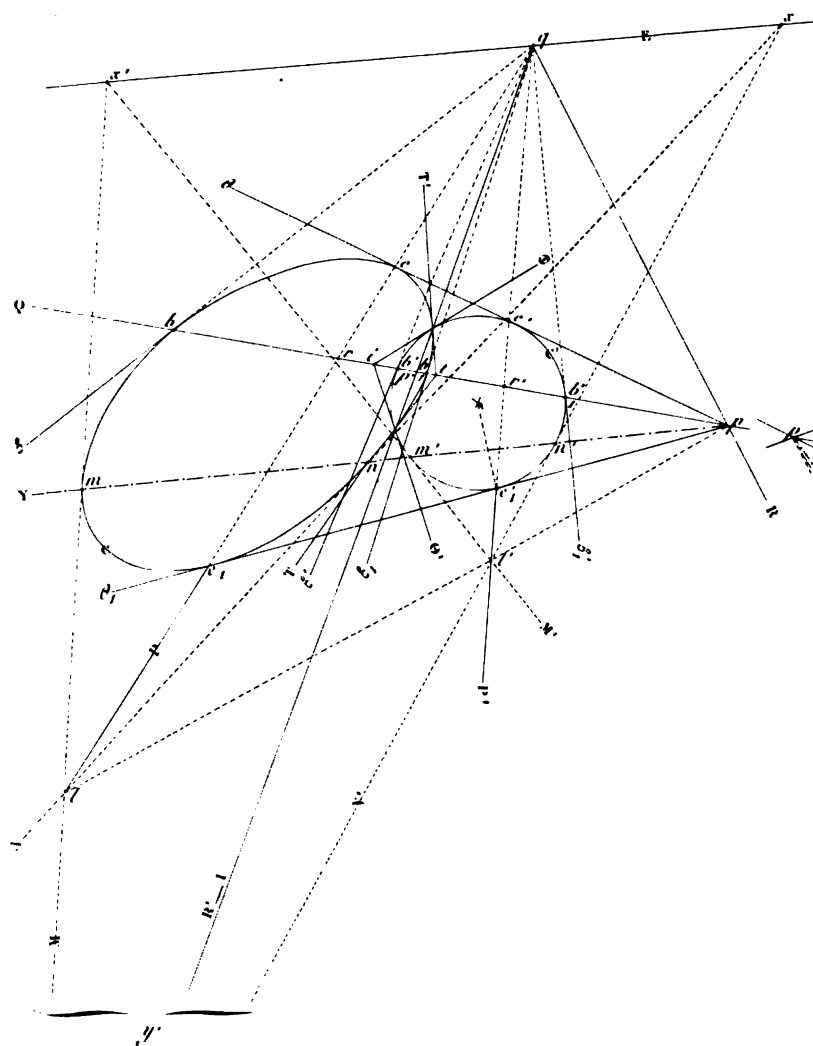


Fig. 303 . .

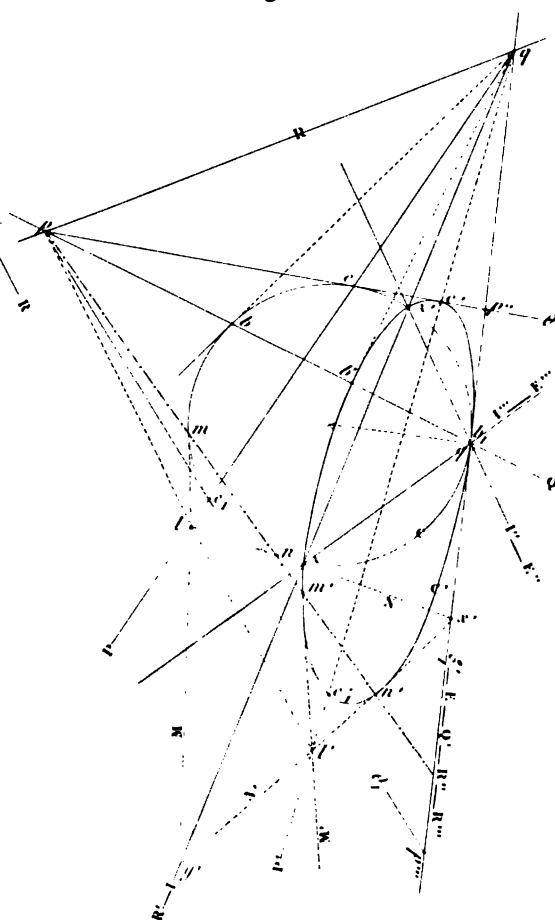


Fig. 303 . .

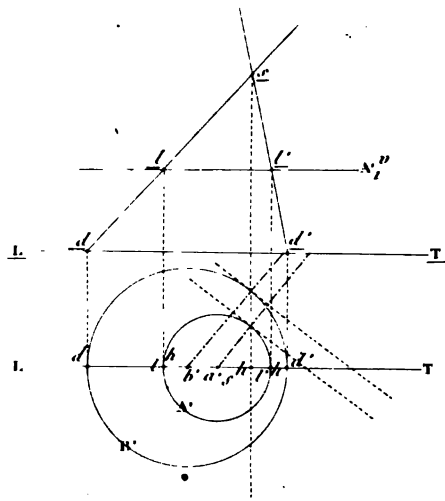


Fig. 306 . .

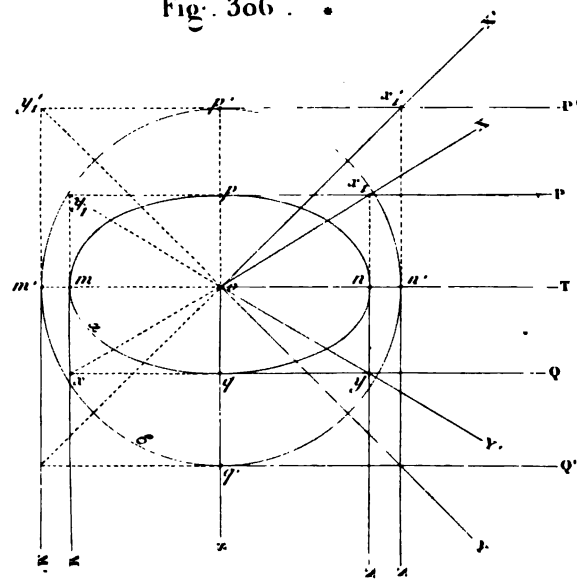


Fig. 307 . .

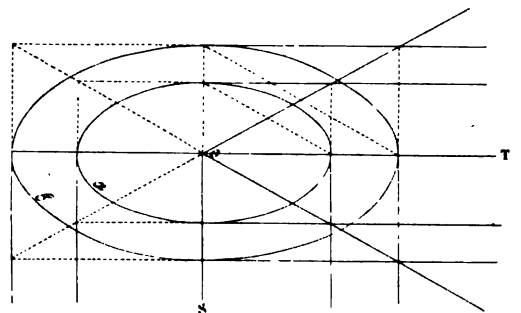


Fig. 307 bis . .

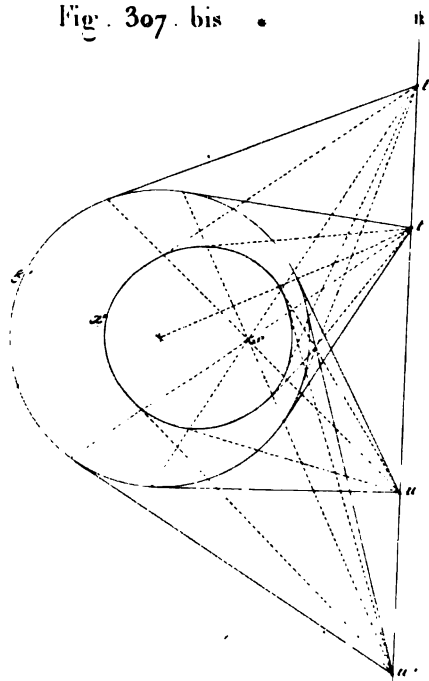


Fig. 306 bis . .

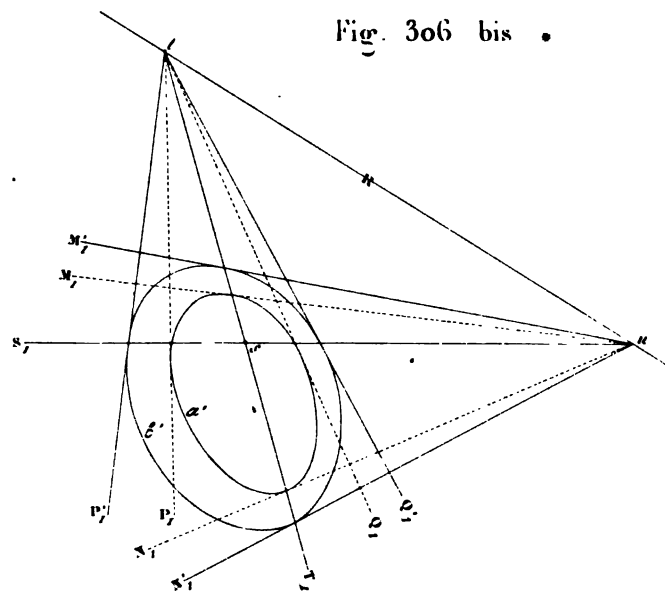


Fig. 308 .

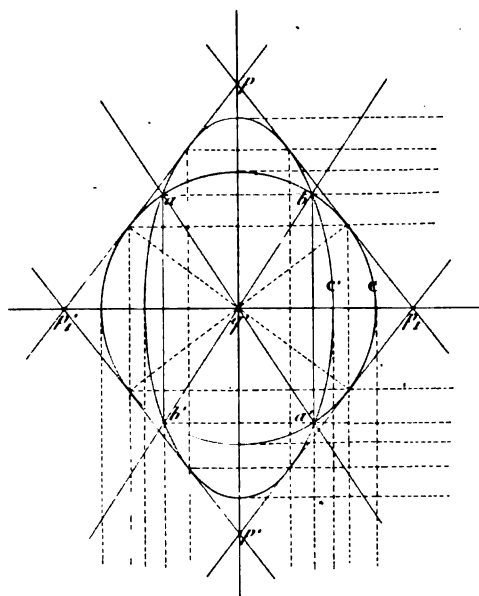


Fig. 308 . a

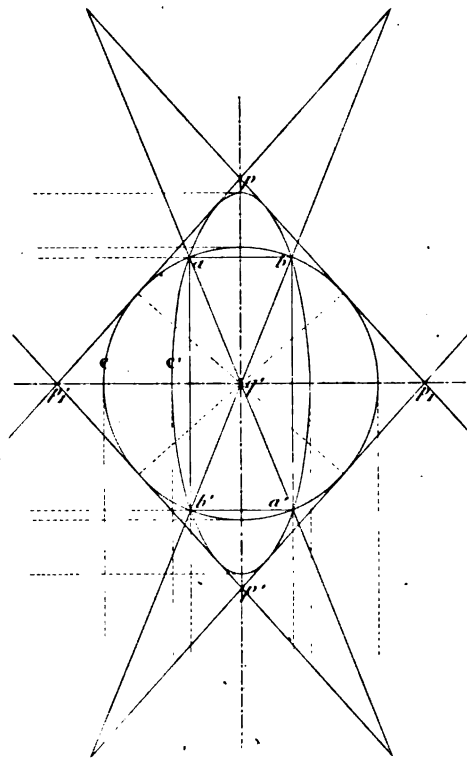


Fig. 308 (bis) .

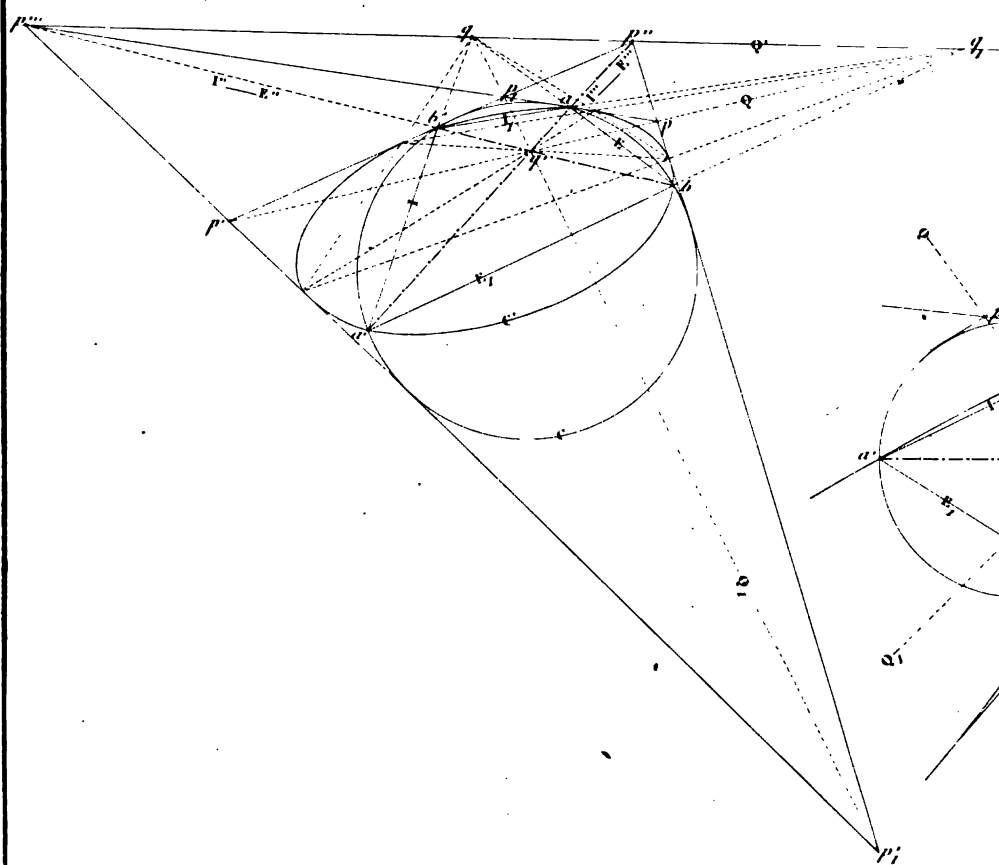


Fig. 308 (ter) .

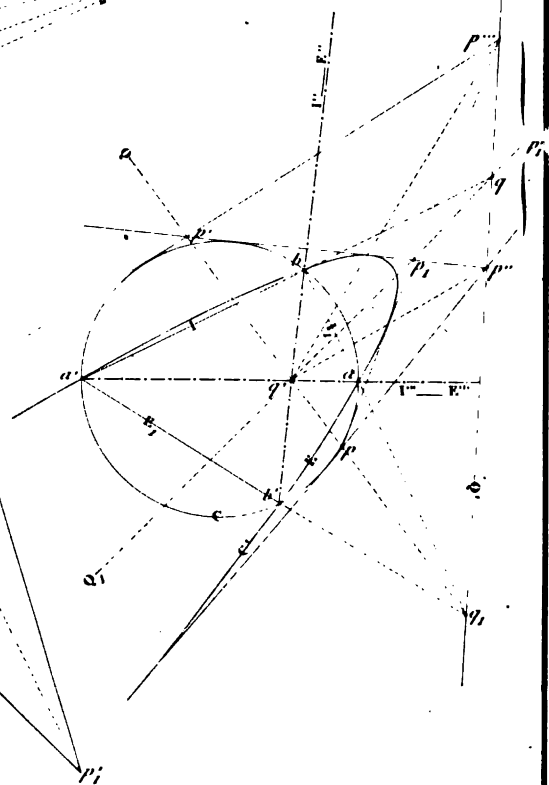


Fig. 309 .

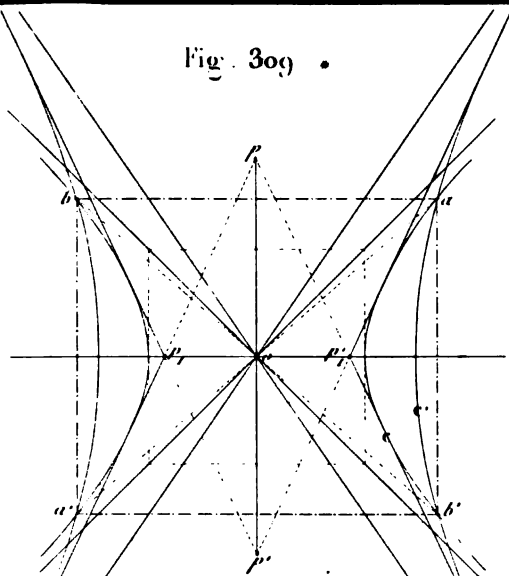


Fig. 310 .

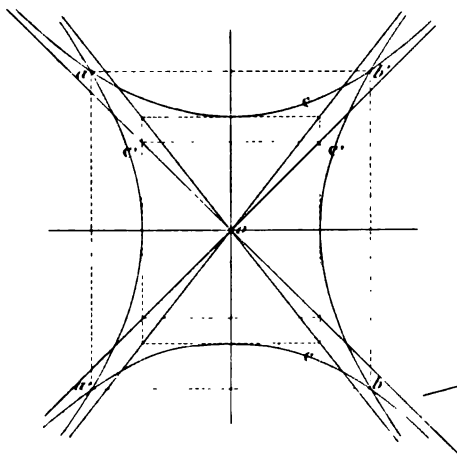


Fig. 311 .

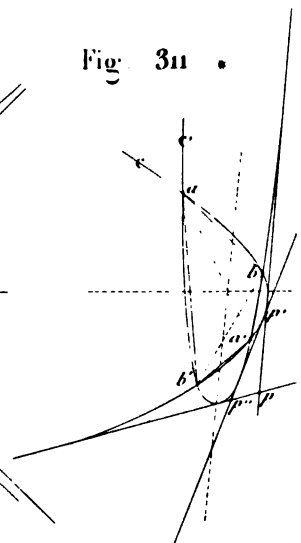


Fig. 312 .

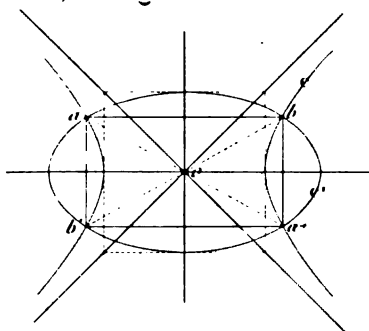


Fig. 313 .

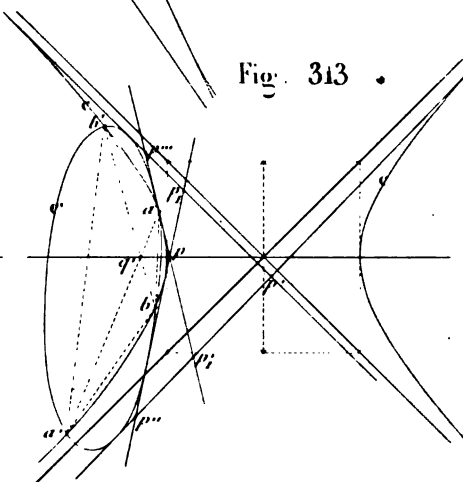


Fig. 314 .

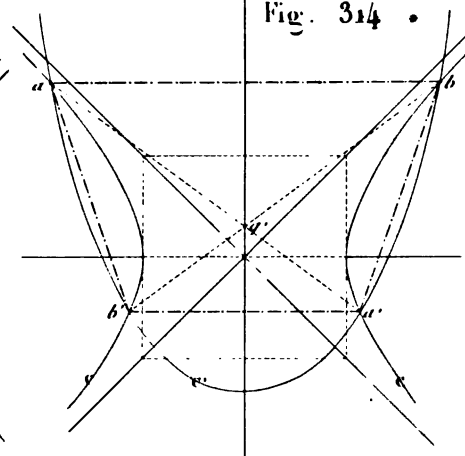


Fig. 317 .

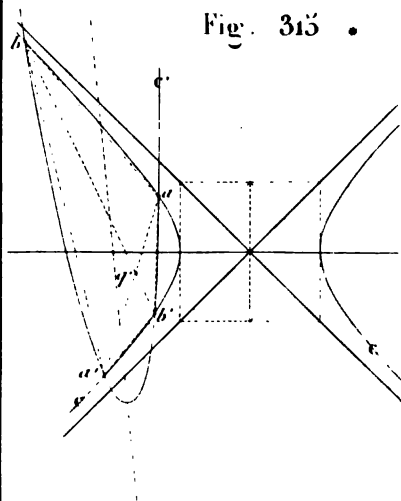
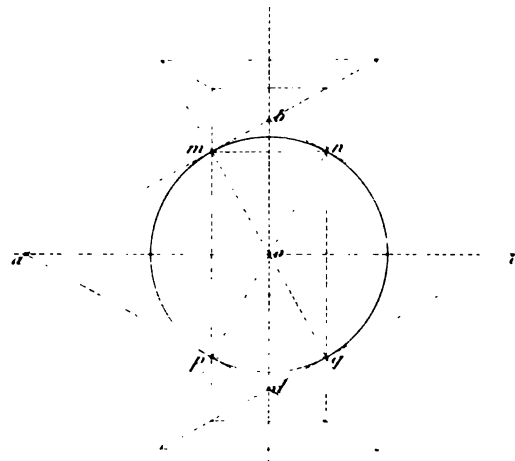
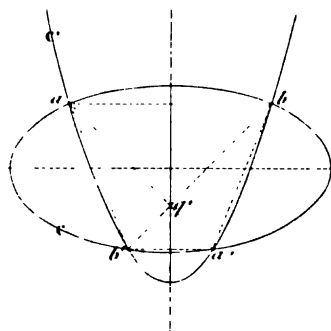


Fig. 315 .

Fig. 316 .



ADDITIONS

AV

COURS DE GÉOMÉTRIE DESCRIPTIVE.

PARIS. — IMPRIMERIE DE FAIN ET THUNOT.
Rue Racine, 28, près de l'Odéon.

ADDITIONS

AU

COURS DE GÉOMÉTRIE DESCRIPTIVE.

DÉMONSTRATION NOUVELLE

DES PROPRIÉTÉS PRINCIPALES DES SECTIONS CONIQUES.

PAR M. THÉODORE OLIVIER,

ANCIEN ÉLÈVE DE L'ÉCOLE POLYTECHNIQUE ET ANCIEN OFFICIER D'ARTILLERIE, DOCTEUR ÈS SCIENCES DE LA FACULTÉ DE PARIS;
 ANCIEN PROFESSEUR ADJOINT DE L'ÉCOLE D'APPLICATION DE L'ARTILLERIE ET DU GÉNIE MILITAIRE À METZ;
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 PROFESSEUR-FONDATEUR DE L'ÉCOLE CENTRALE DES ARTS ET MANUFACTURES;
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 MEMBRE ÉTRANGER DES DEUX ACADÉMIES ROYALES DES SCIENCES ET DES SCIENCES MILITAIRES DE STOCKHOLM;
 MEMBRE CORRESPONDANT DE LA SOCIÉTÉ ROYALE DES SCIENCES DE LIÈGE ET DE LA SOCIÉTÉ ROYALE D'AGRICULTURE ET ARTS UTILES DE LYON;
 DES ACADÉMIES DE METZ, DIJON ET LYON;
 OFFICIER DE LA LÉGIION D'HONNEUR ET CHEVALIER DE L'ORDRE ROYAL DE L'ÉTOILE POLAIRE DE SUÈDE

ATLAS.

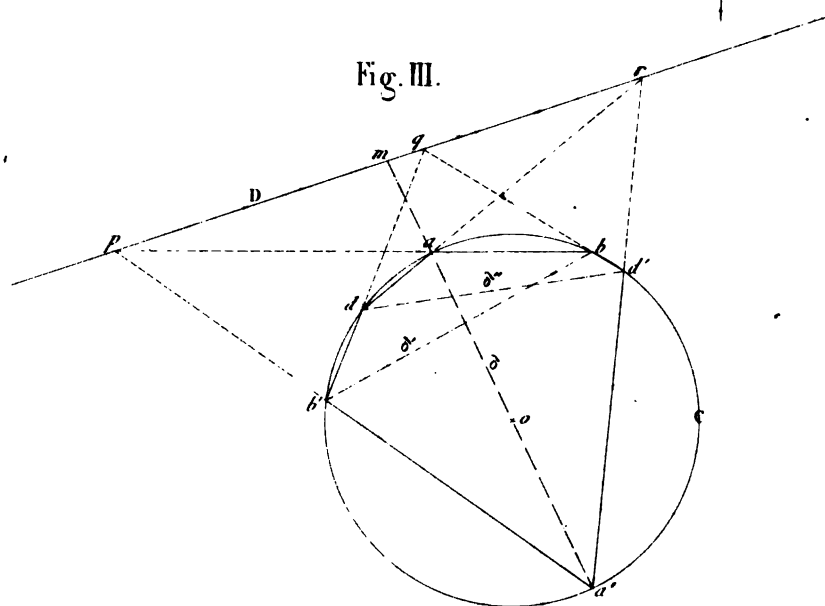
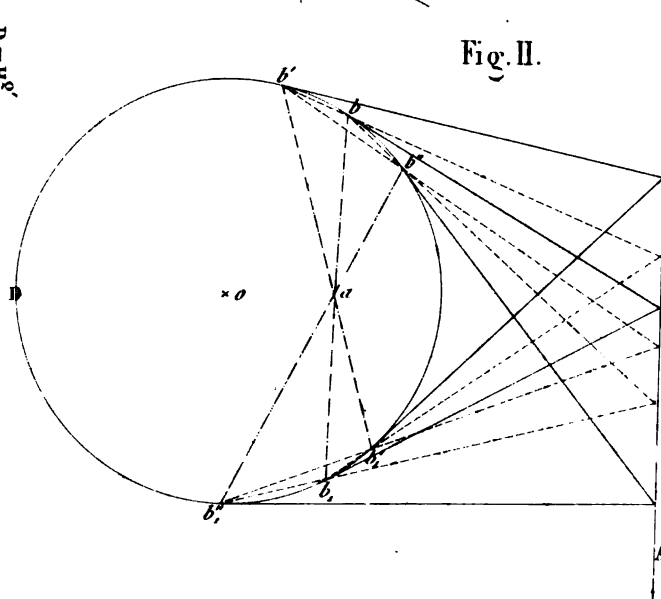
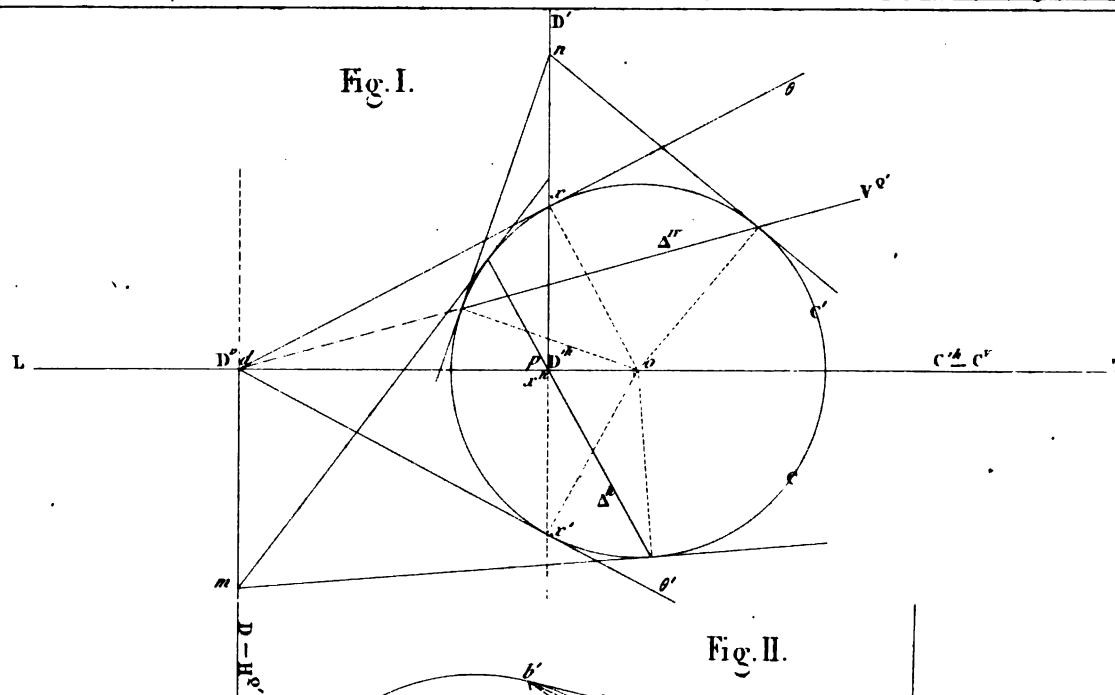
PARIS.

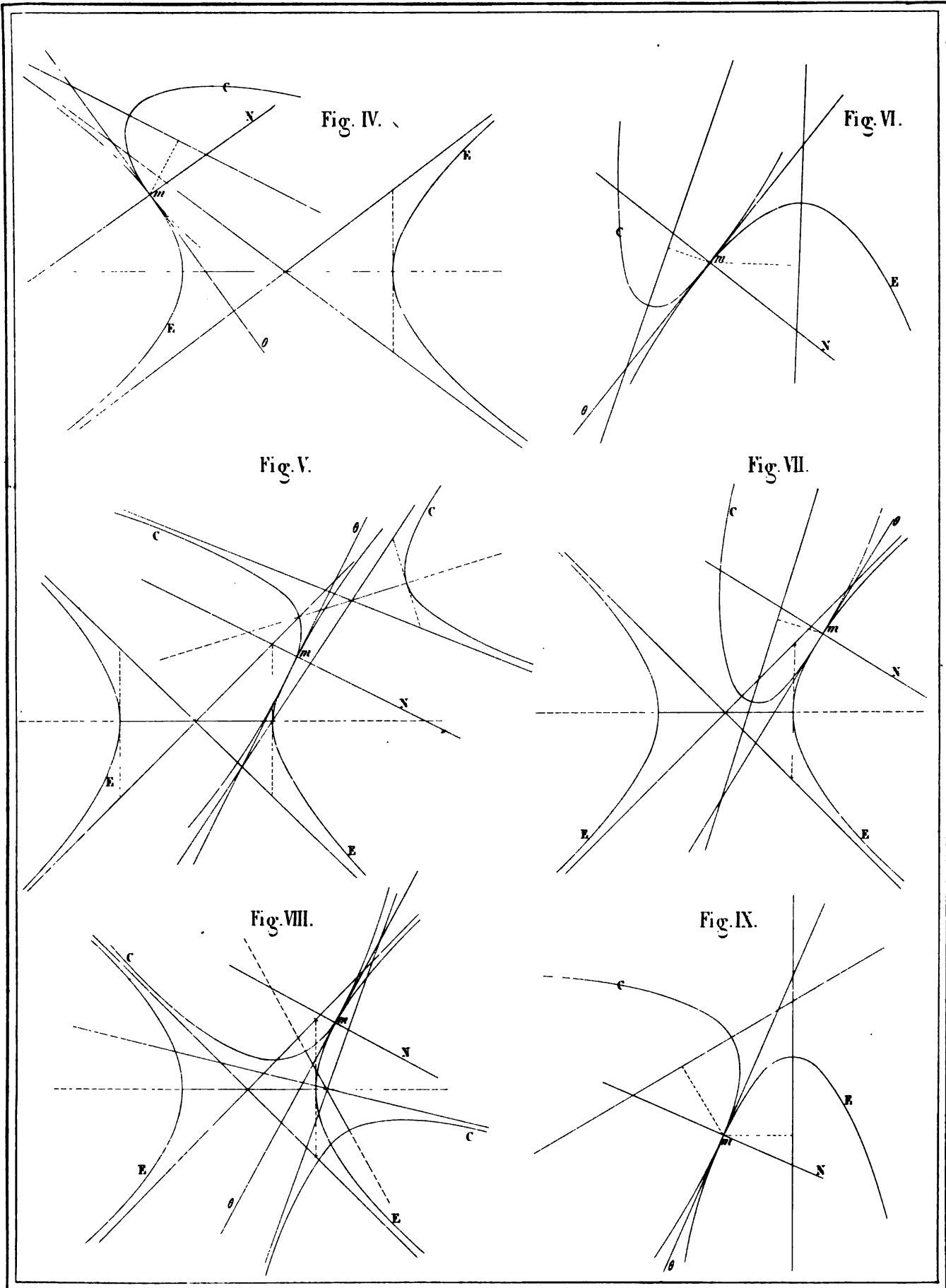
CARILIAN-GŒURY ET V^{os} DALMONT, ÉDITEURS,

LIBRAIRES DES CORPS ROYAUX DES PONTS ET CHAUSSEES ET DES MINES,

Quai des Augustins, n^{os} 39 et 41.

1847

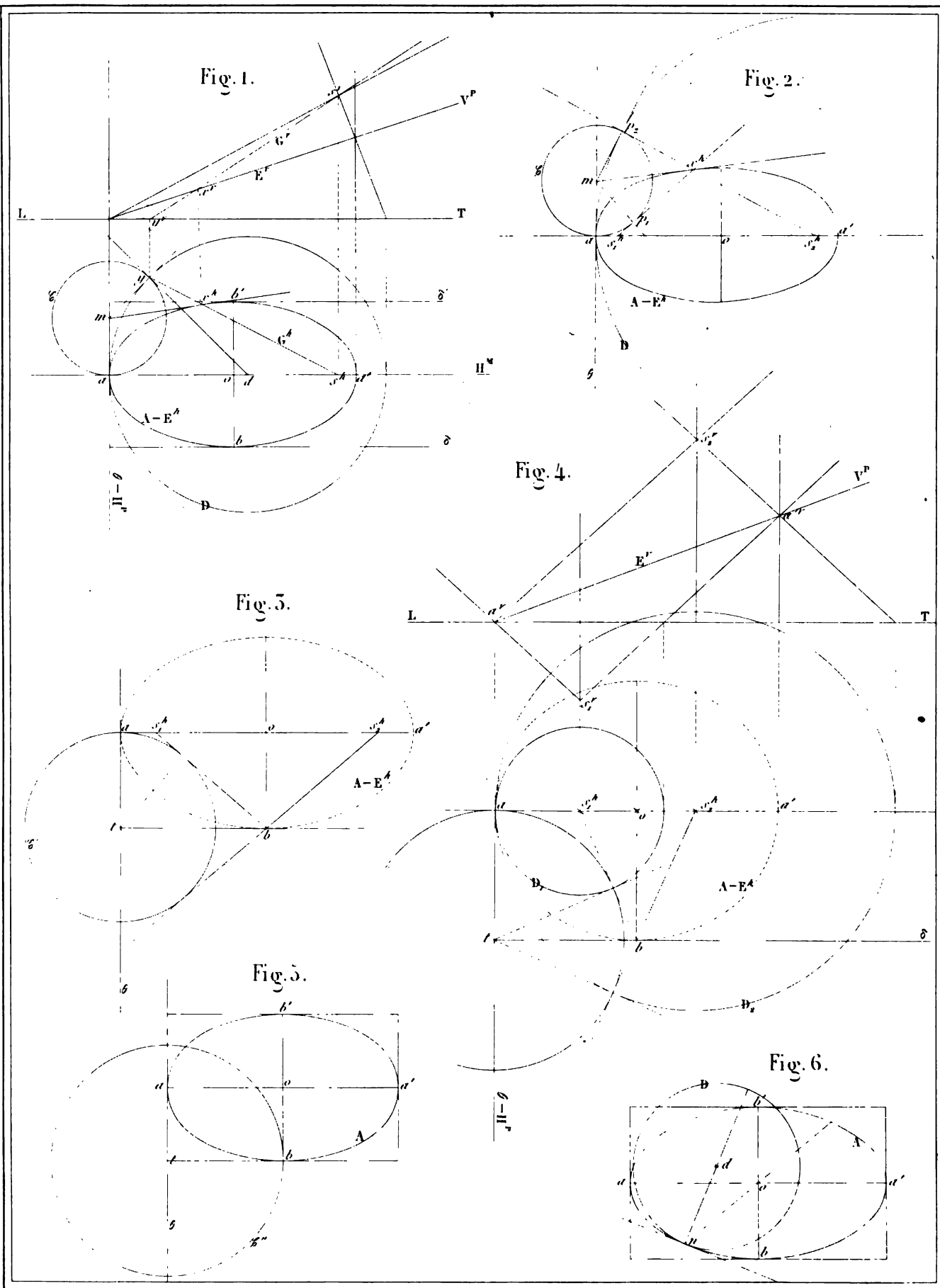




COURS DE GÉOMÉTRIE DESCRIPTIVE. ADDITIONS.

2^e Partie.

Pl. 5.



Dessiné par Théodore Olivier

Gravé par Lemaitre

Fig. 7.

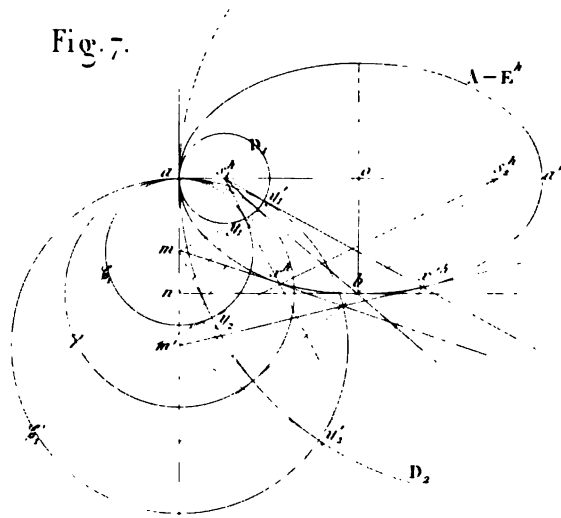


Fig. 7^{bis}

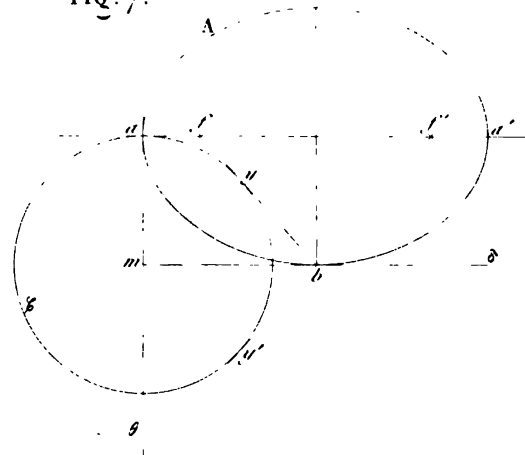


Fig. 7^{ter}

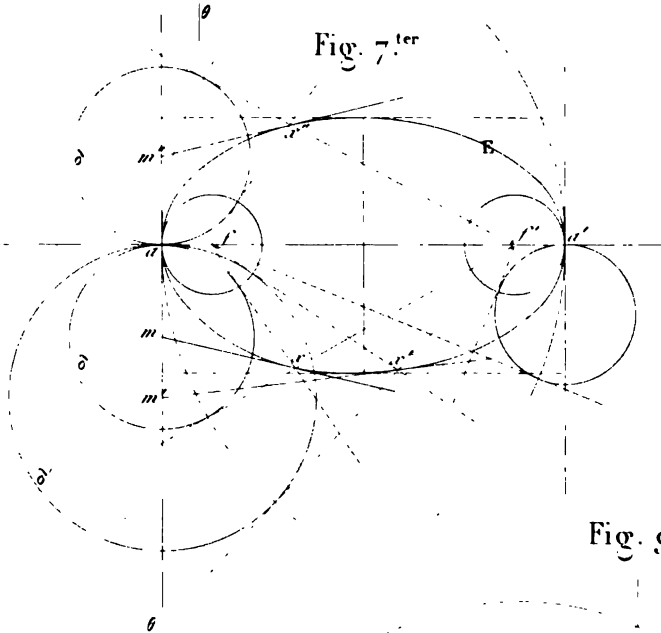


Fig. 8.

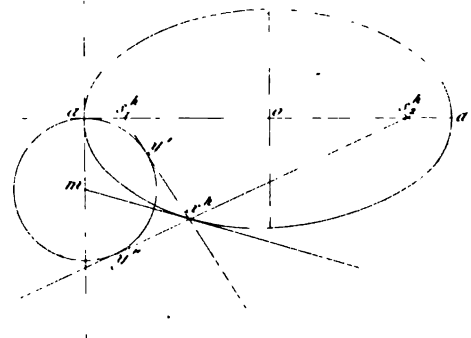
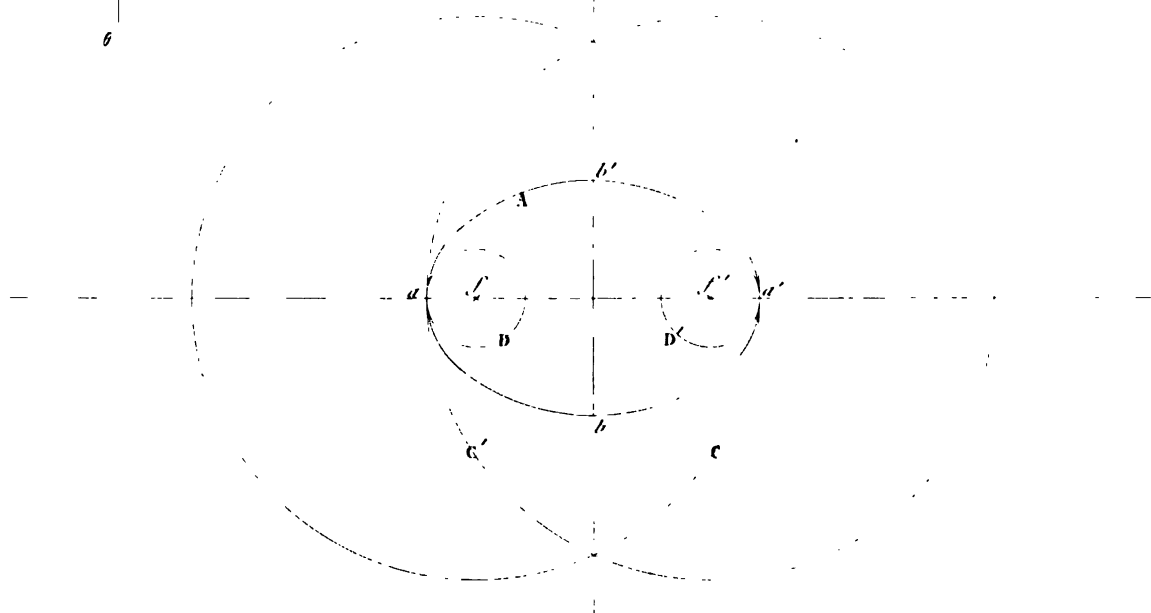


Fig. 9.



COURS DE GÉOMÉTRIE DESCRIPTIVE.

2^e Partie.

ADDITIONS.

Pl. 5.

Fig. 10.

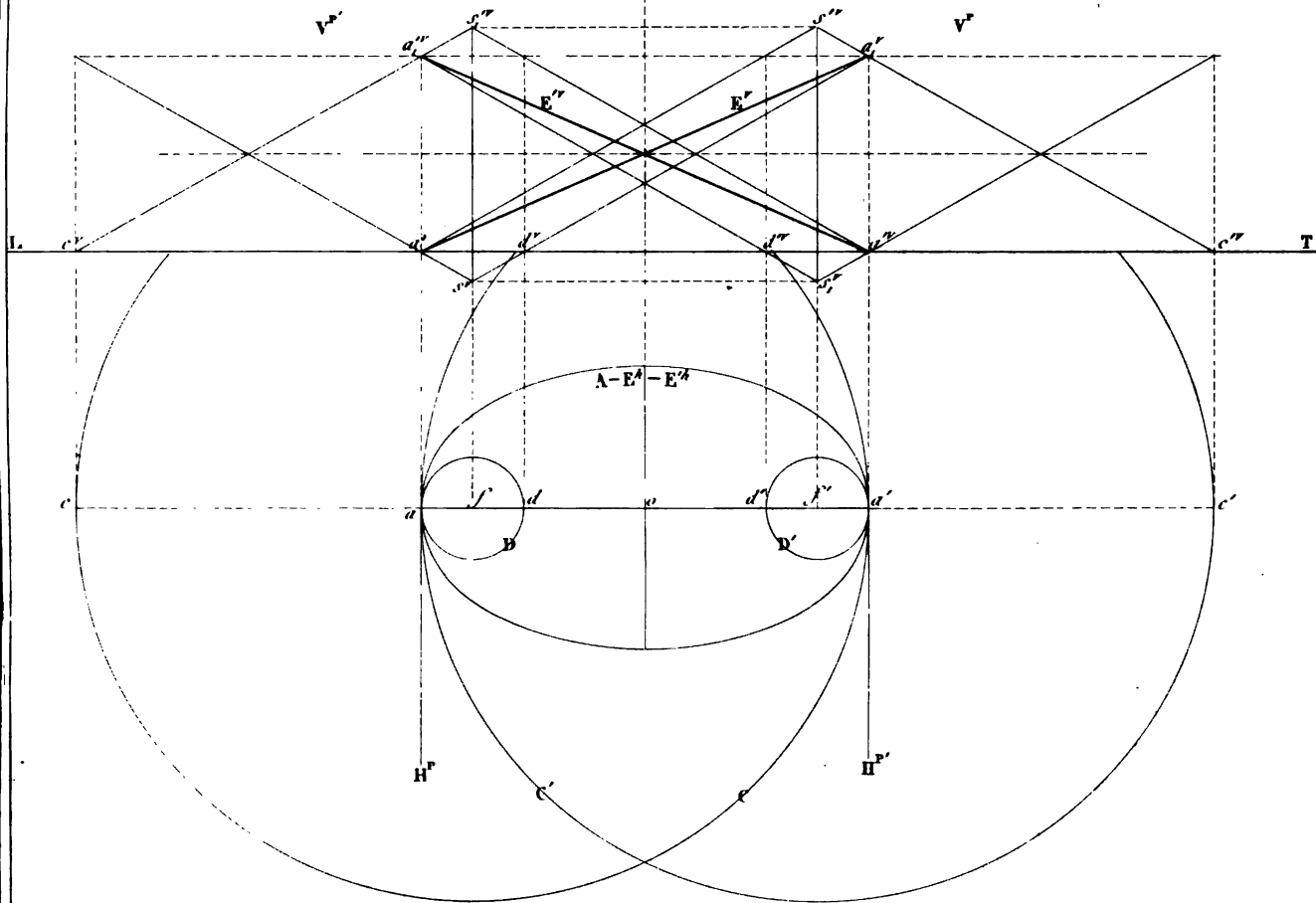


Fig. 11.

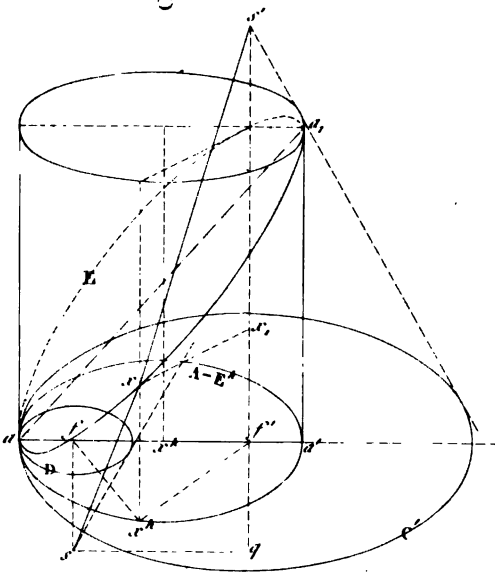


Fig. 12.

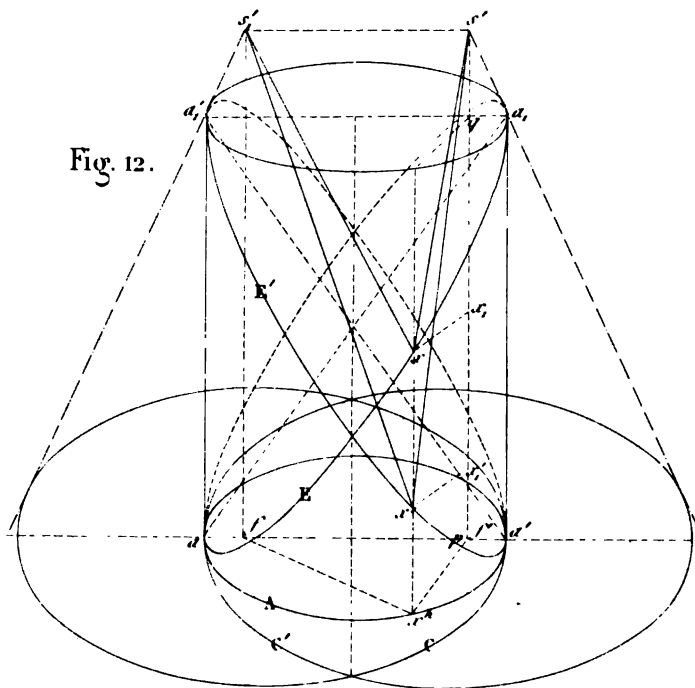


Fig. 13.

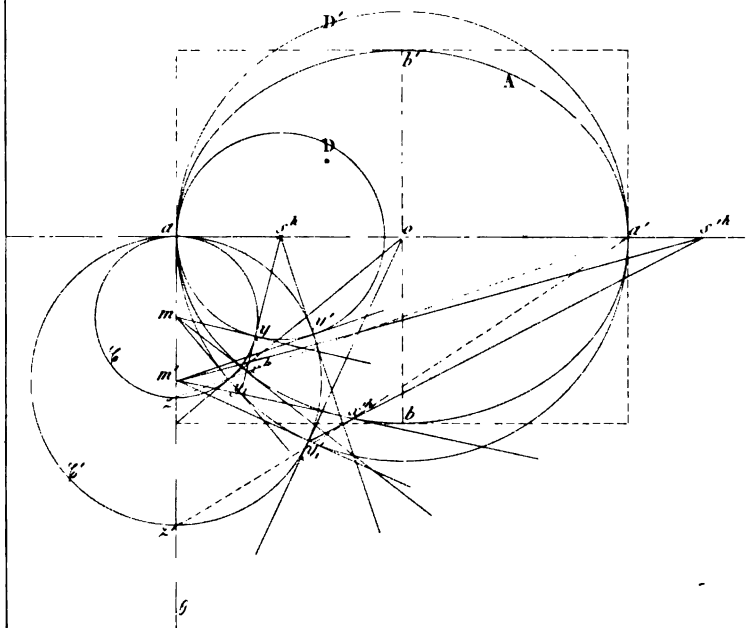


Fig. 13^{bis}

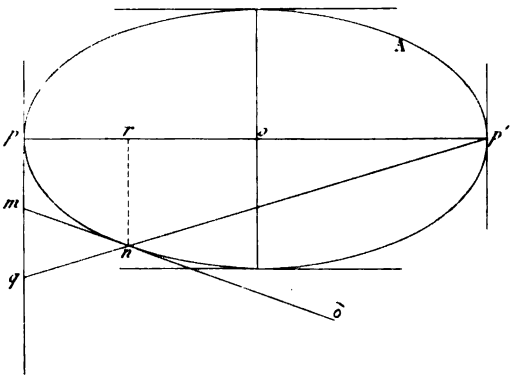


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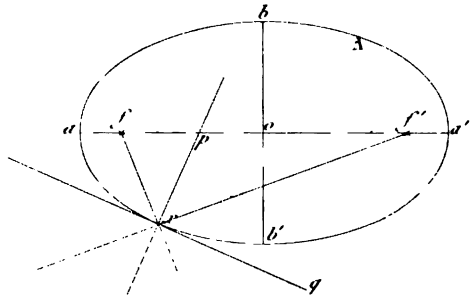


Fig. 15.

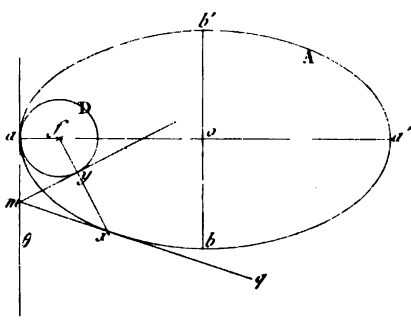


Fig. 16.

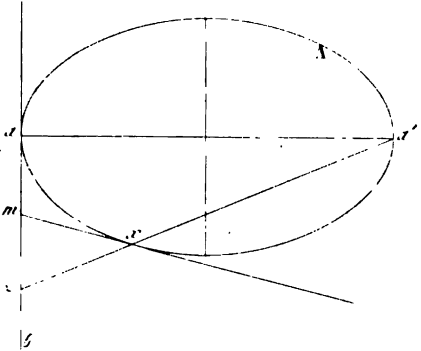
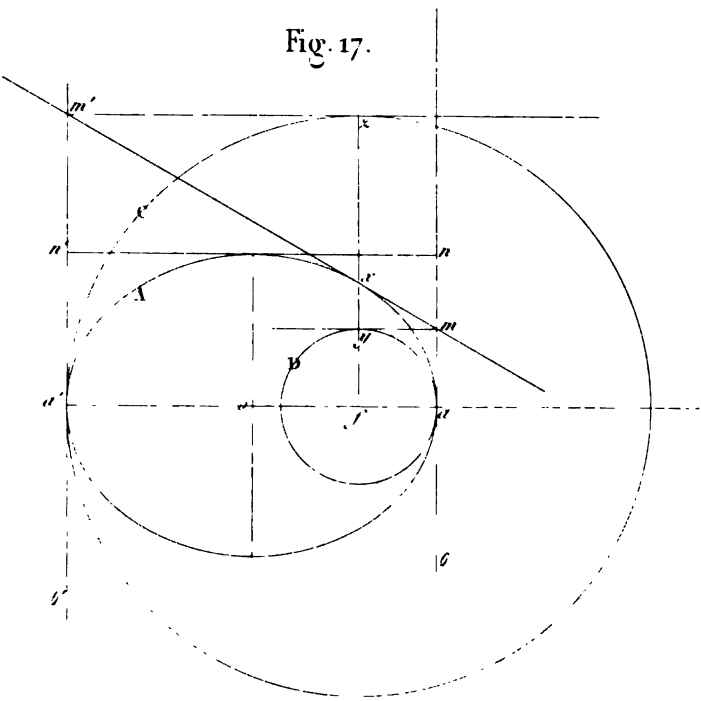


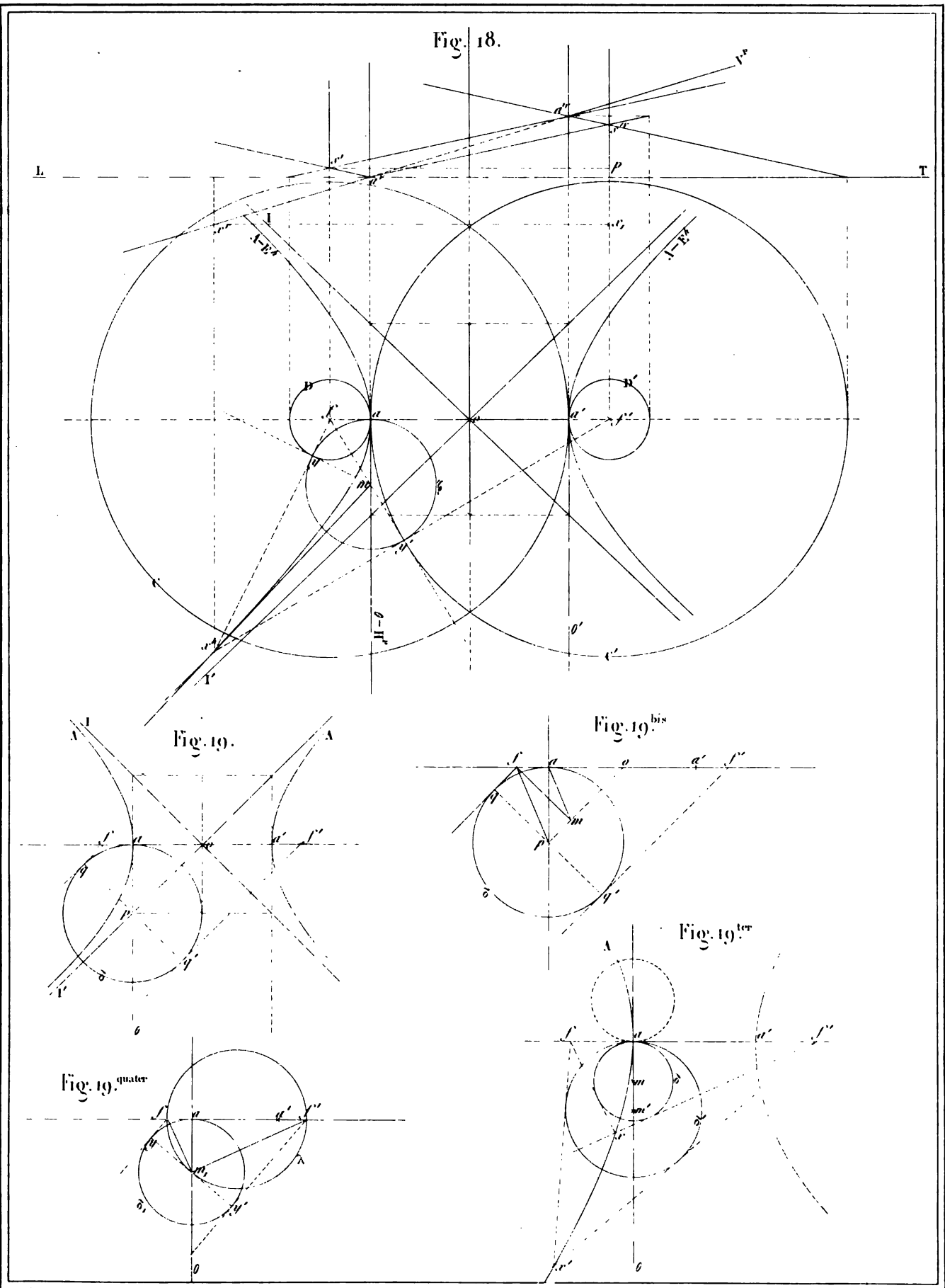
Fig. 17.



ADDITIONS.

2^e Partie.

Pl. 7.



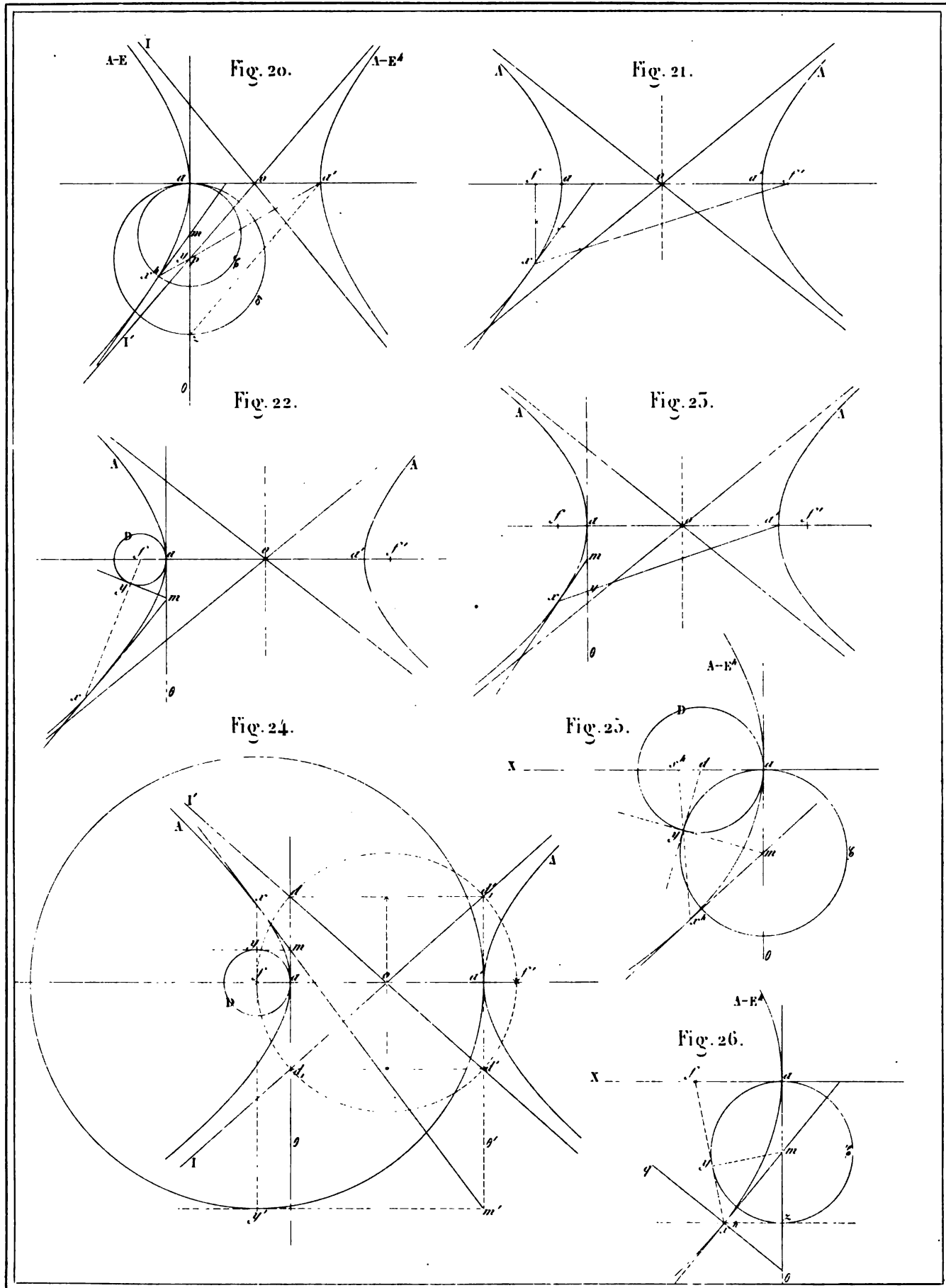
Dessiné par Théodore Olivier.

corro per la matrice

COURS DE GÉOMÉTRIE DESCRIPTIVE. ADDITIONS.

2^e Partie.

Pl. 8.



Dessiné par Théodore Olivier

Gravé par Lemaitre.

Fig. 27.

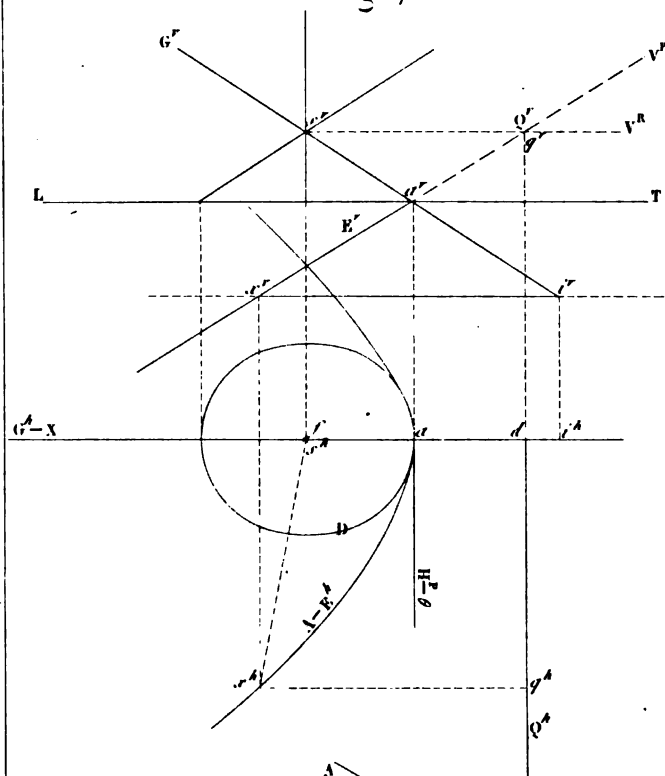


Fig. 28.

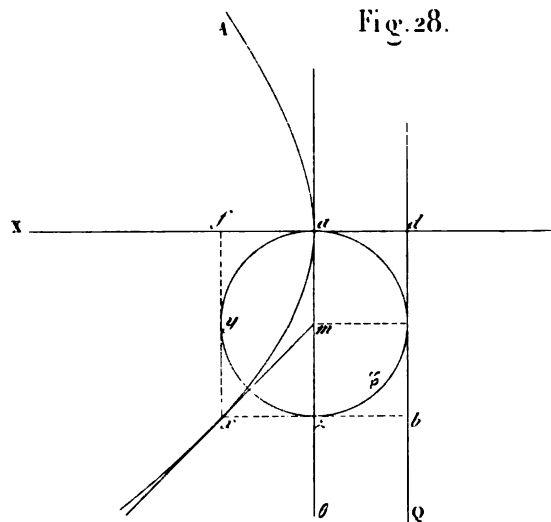
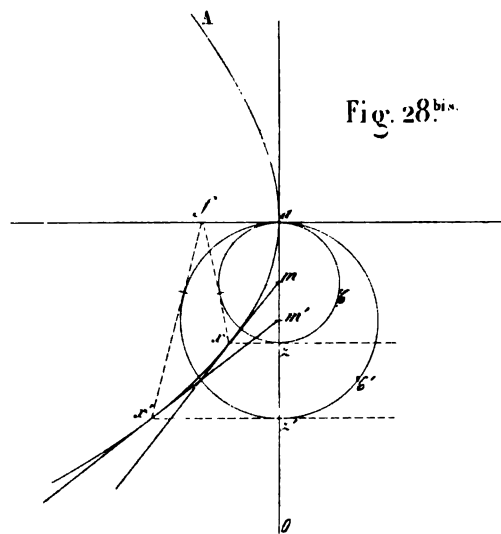
Fig. 28^{bis}.

Fig. 29.

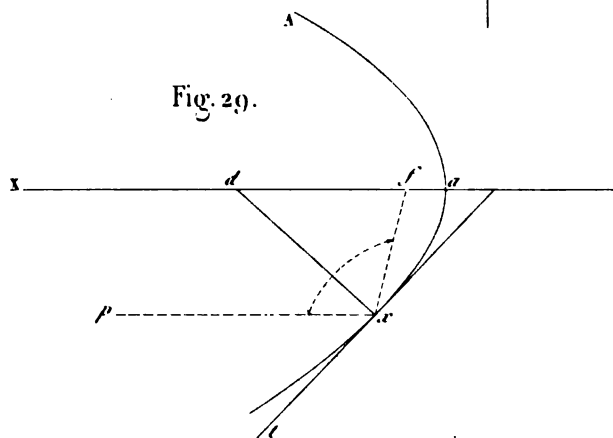


Fig. 30.

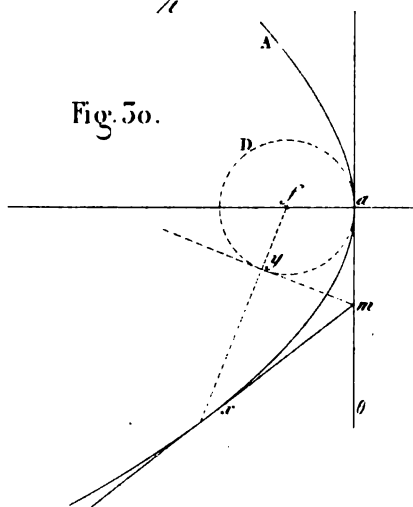
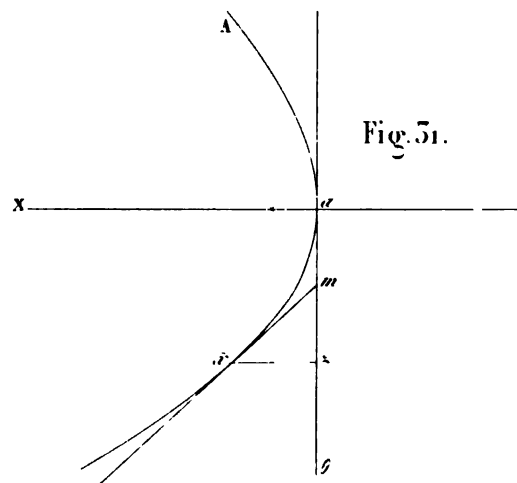
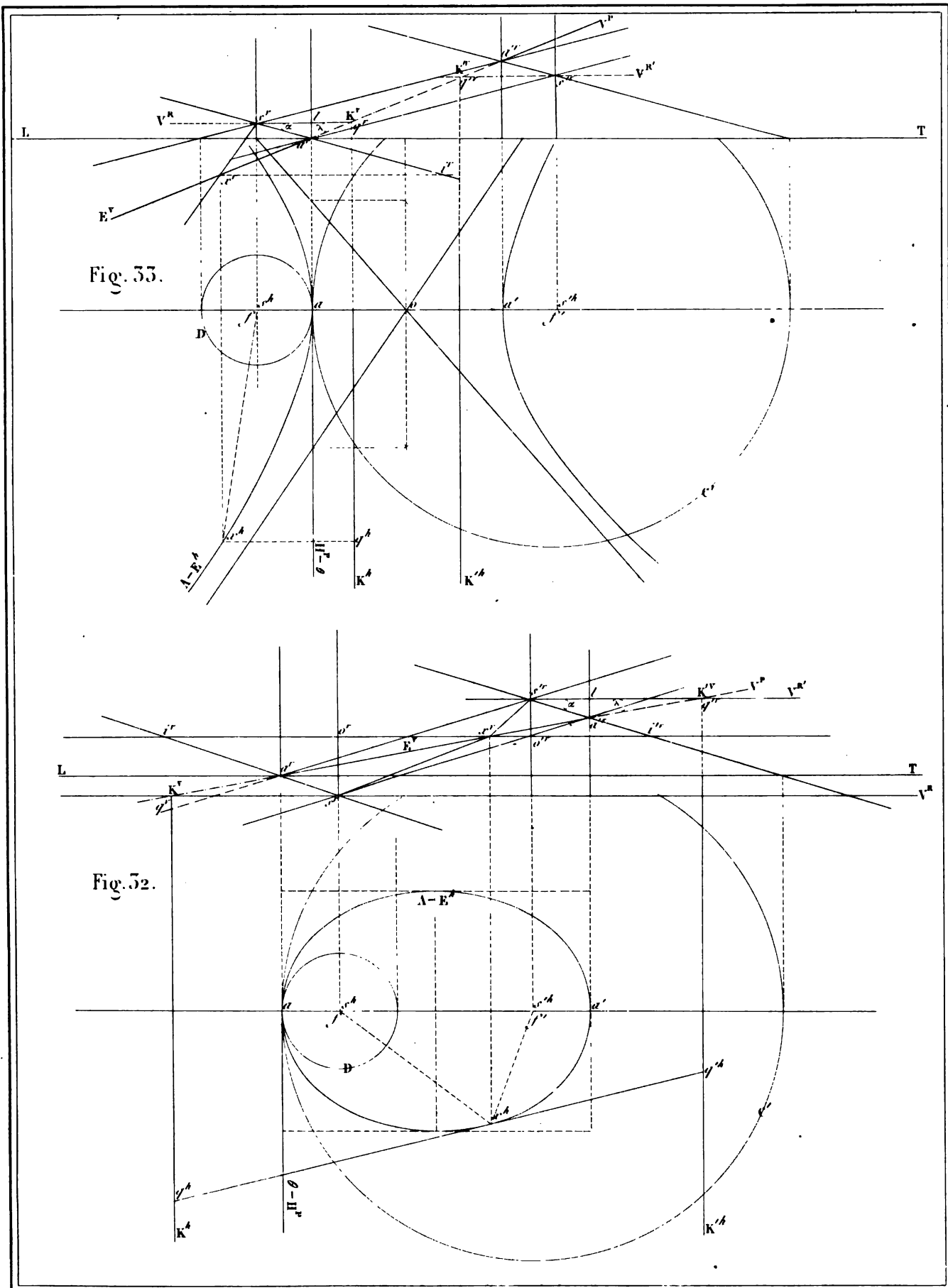


Fig. 31.





COURS DE GÉOMÉTRIE DESCRIPTIVE.
 ADDITIONS.

2^e Partie.

Pl. II.

Fig. 54.

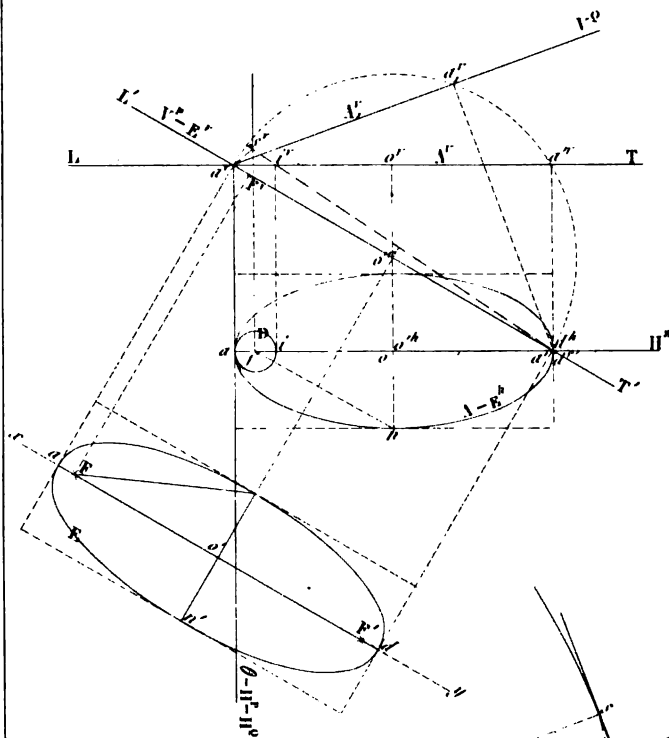


Fig. 55.^{bis}

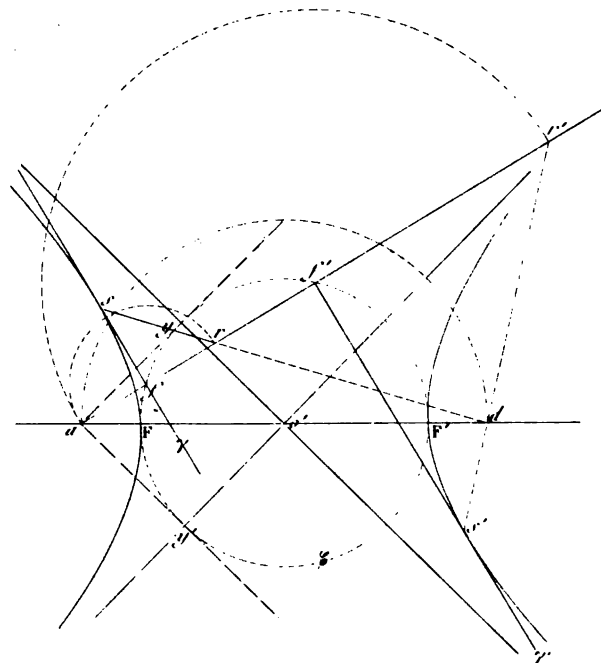


Fig. 56.

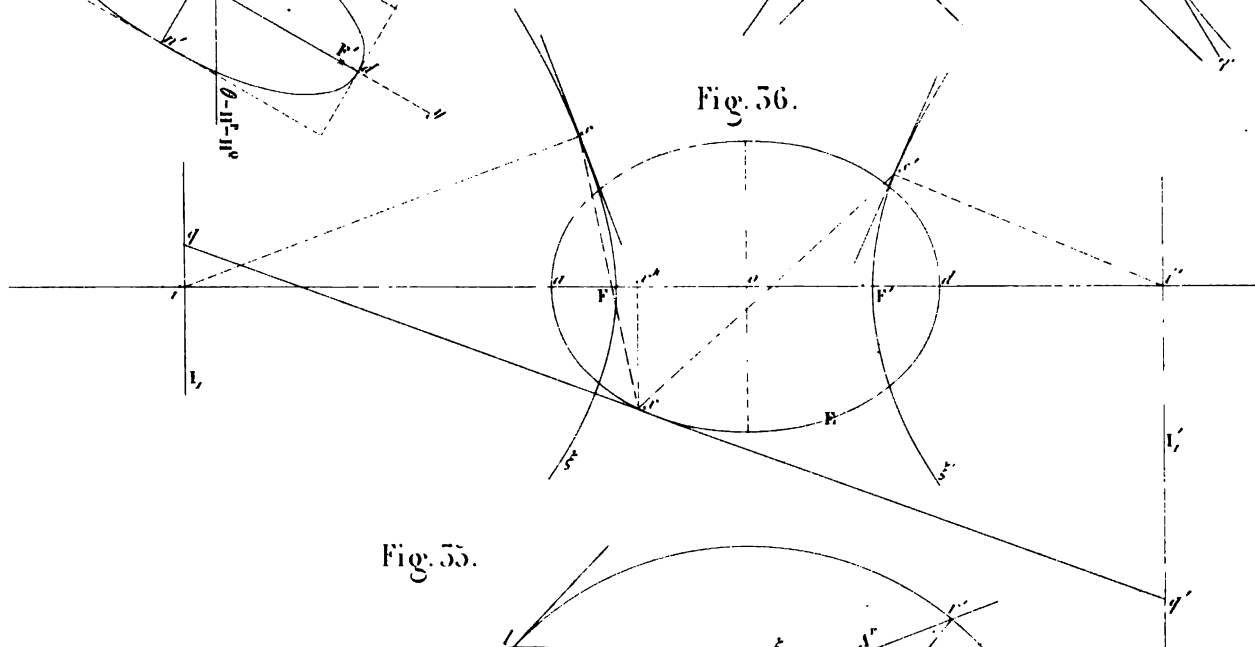
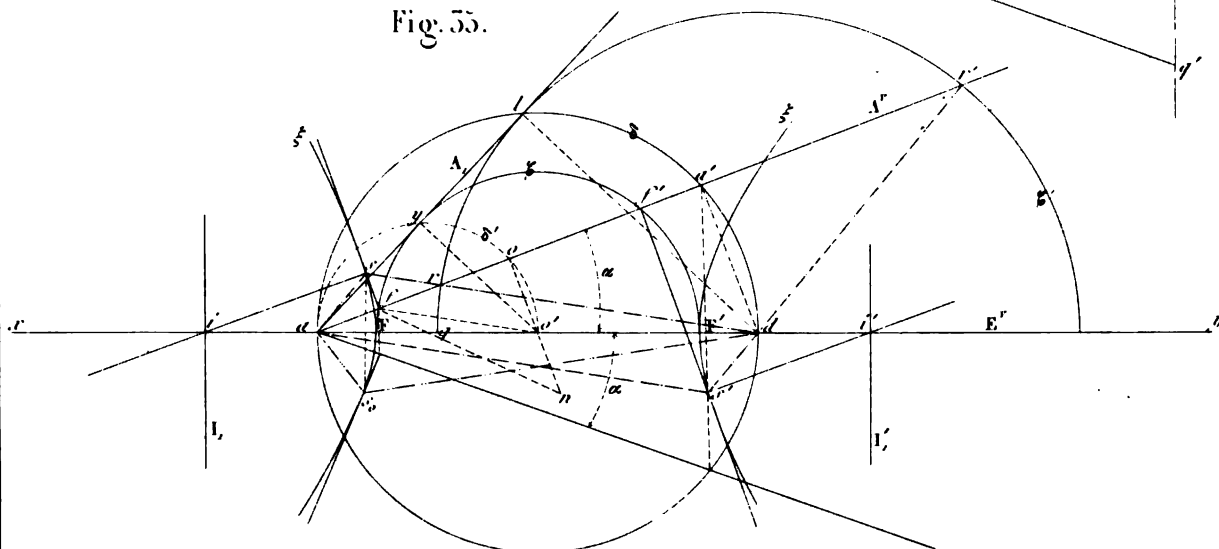


Fig. 55.



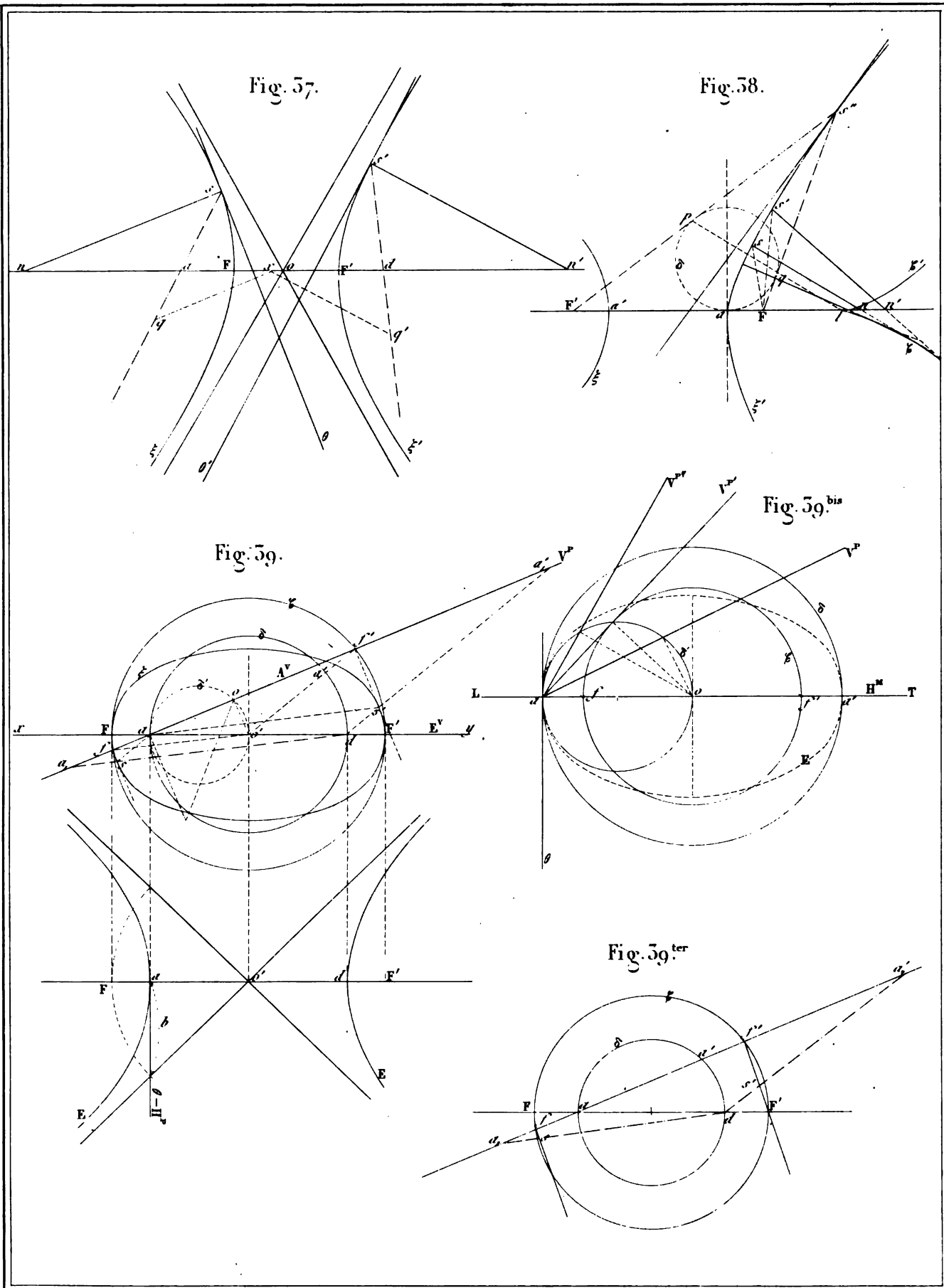
Dessiné par Theodore Olivier

Gravé par Lemaitre

COURS DE GÉOMÉTRIE DESCRIPTIVE.
ADDITIONS.

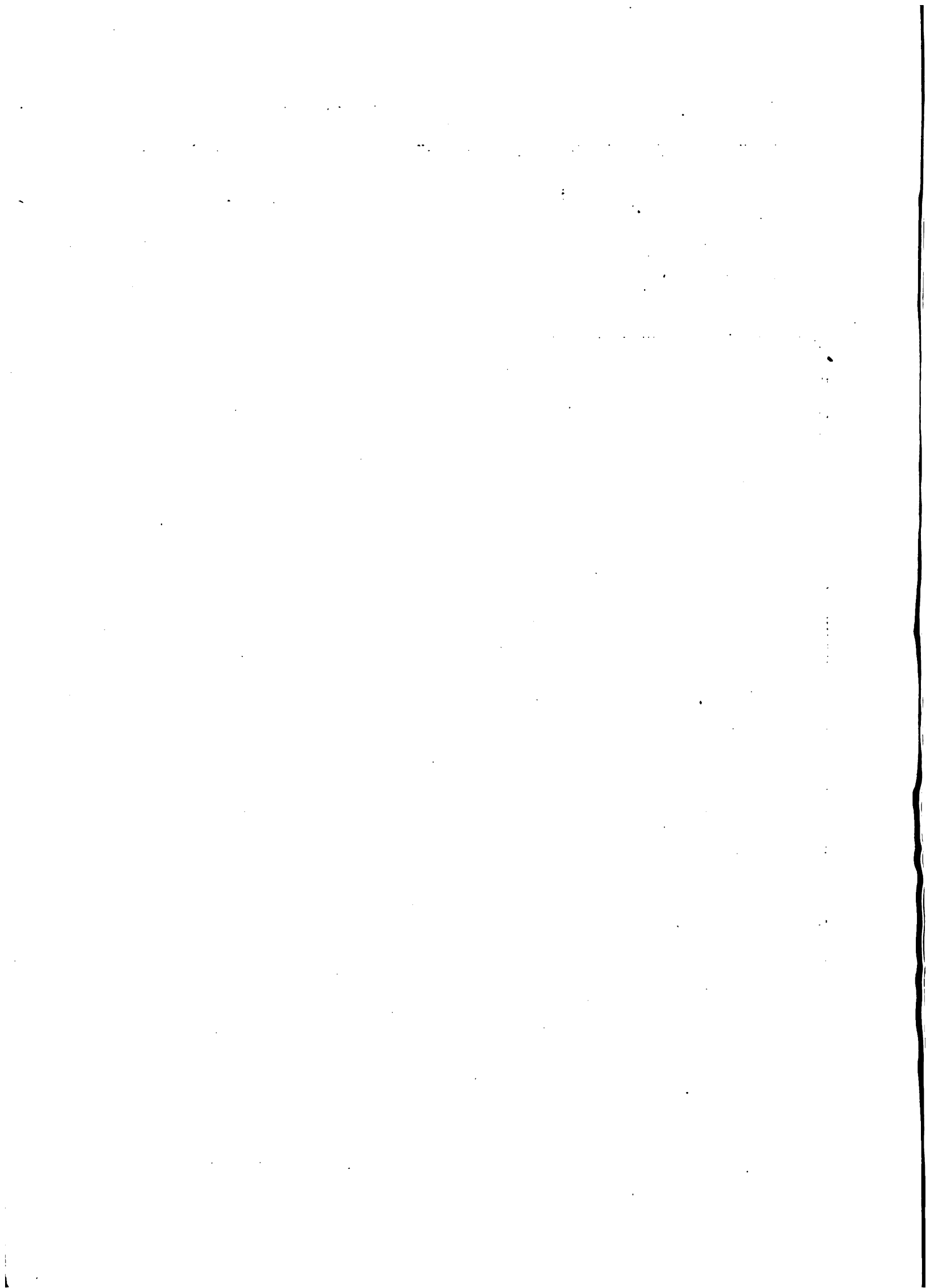
2^e Partie.

Pl. 12.



Dessiné par Théodore Olivier.

Gravé par Lemaitre



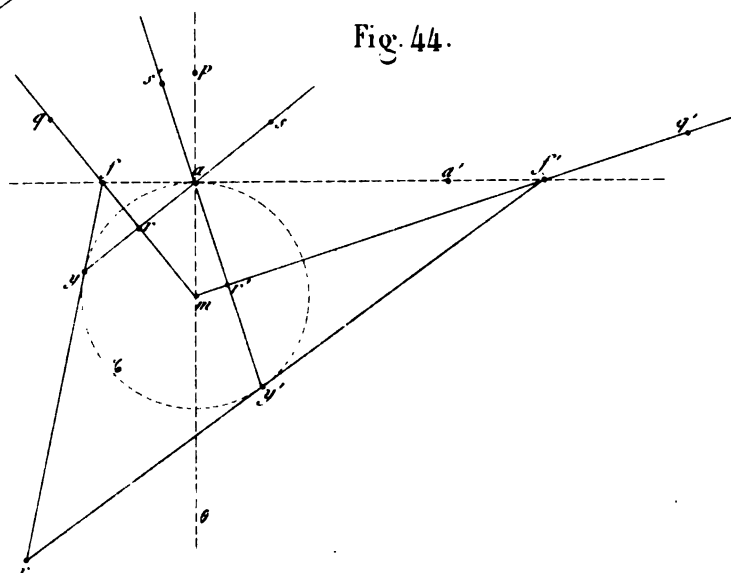
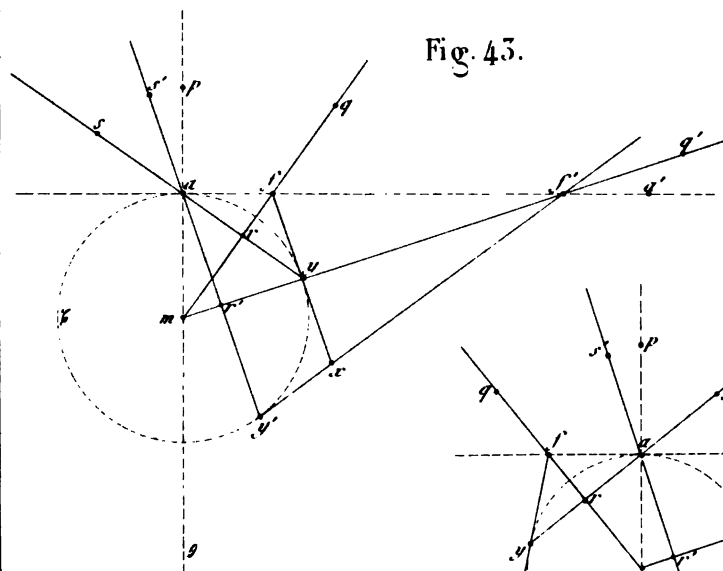
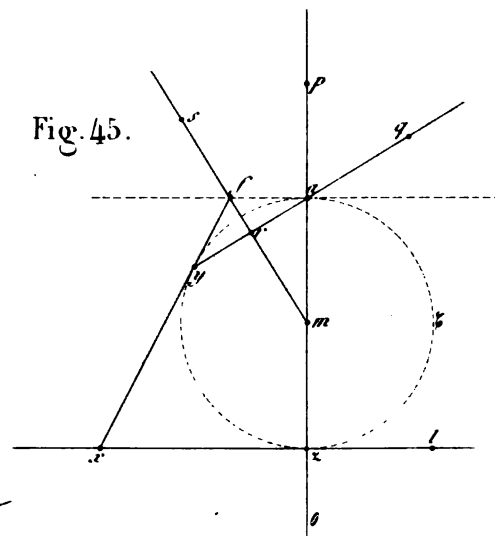
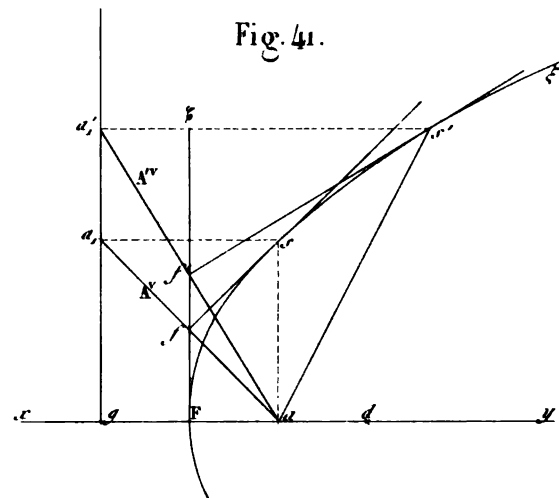
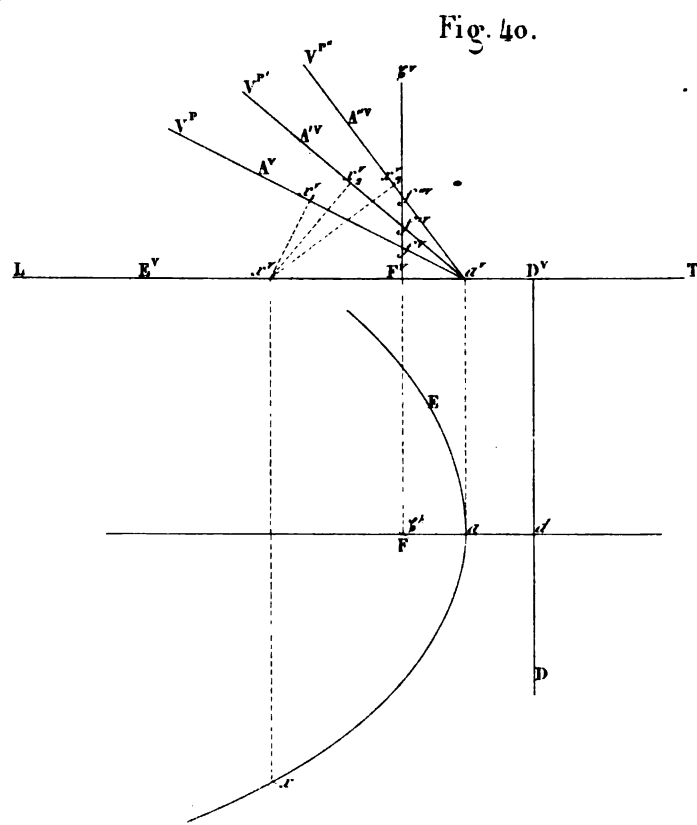


Fig. 42.

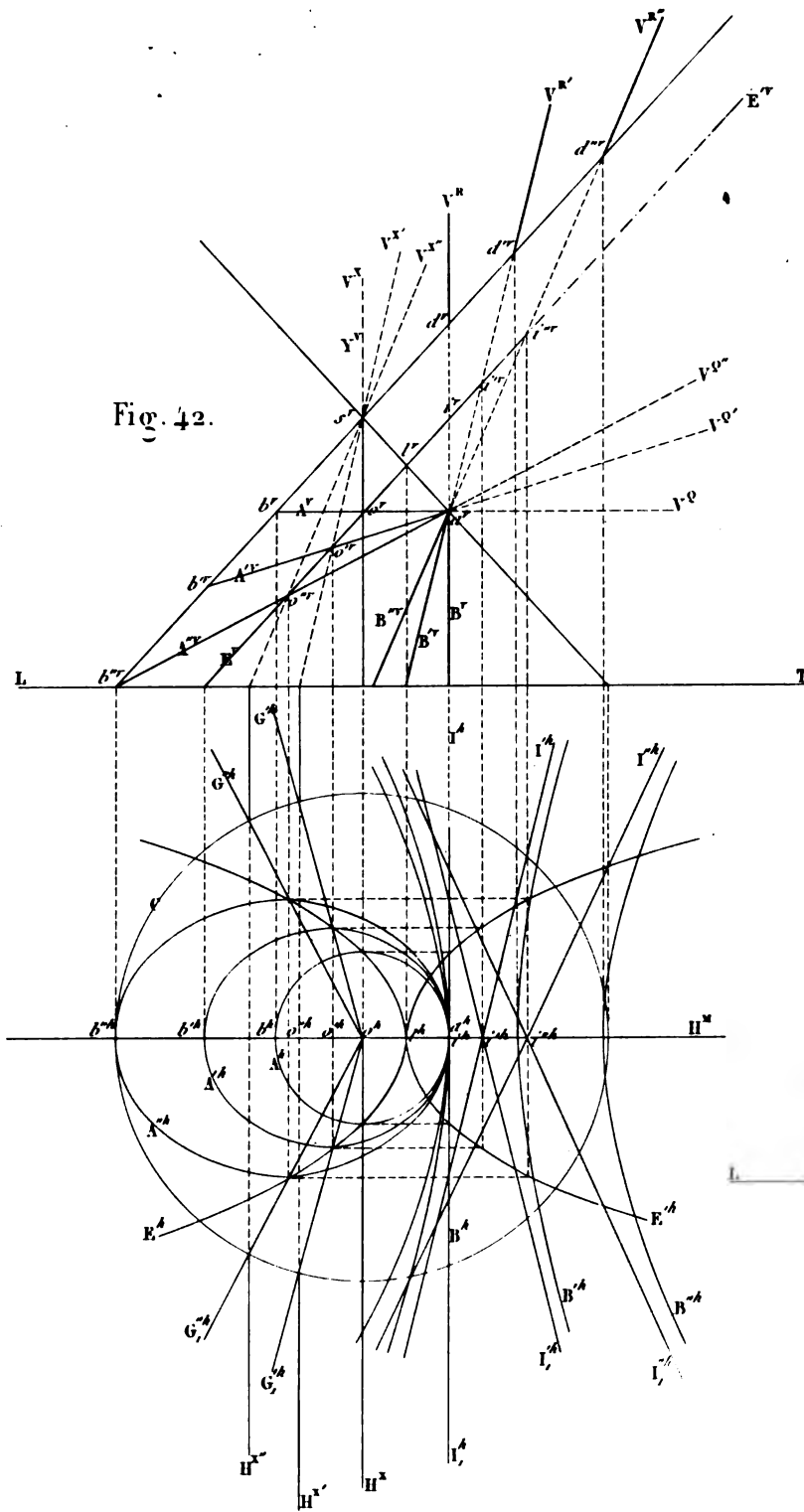
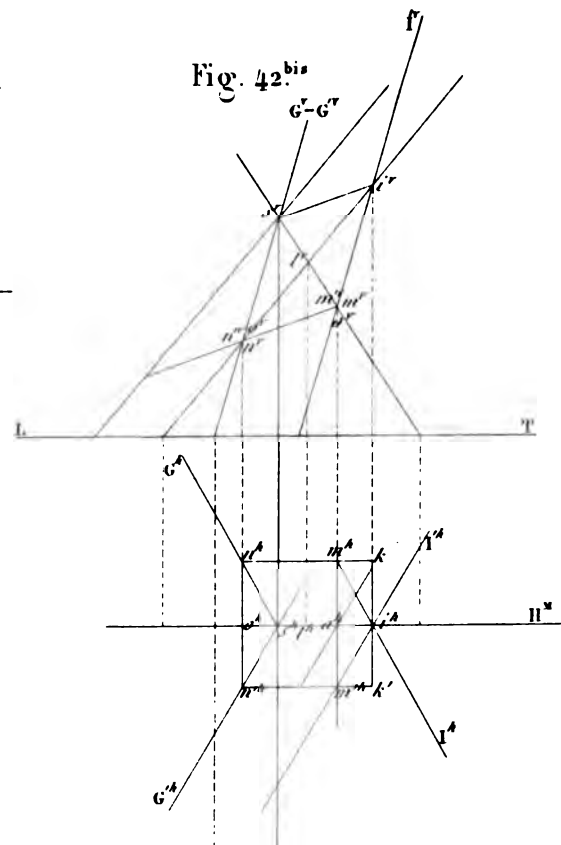


Fig. 42^{bis}.



COURS DE GÉOMÉTRIE DESCRIPTIVE.

Additions diverses.

ADDITIONS.

Pl. 15.

Fig. a.

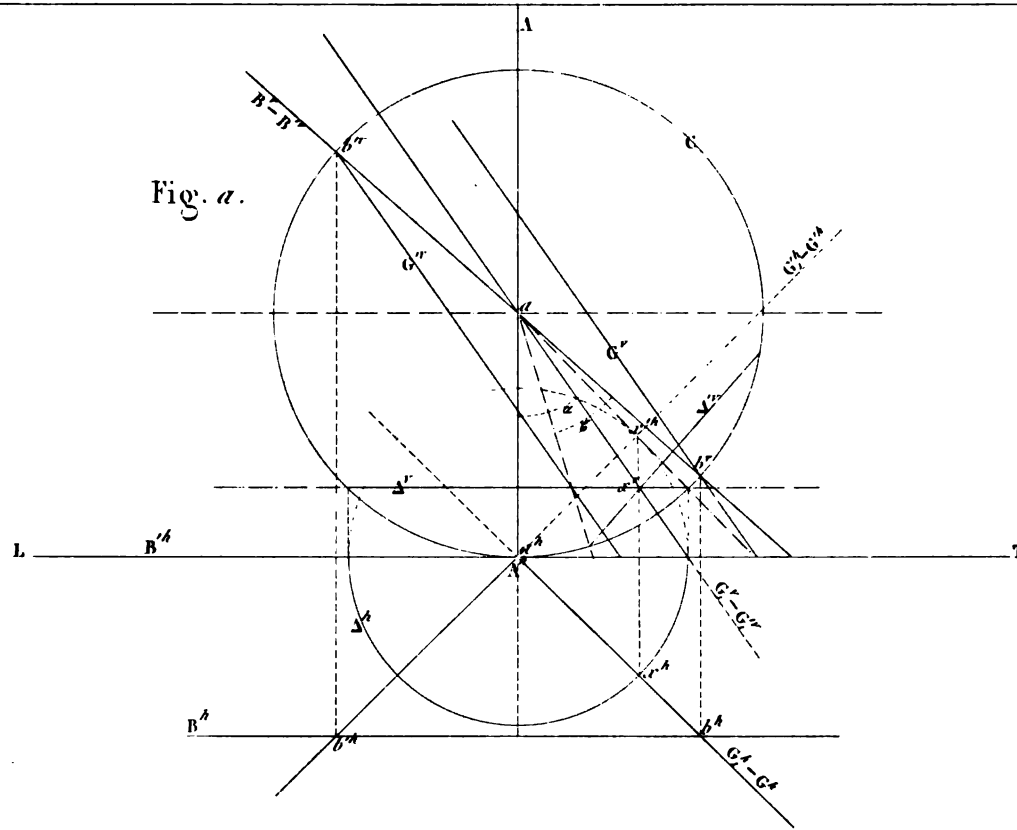
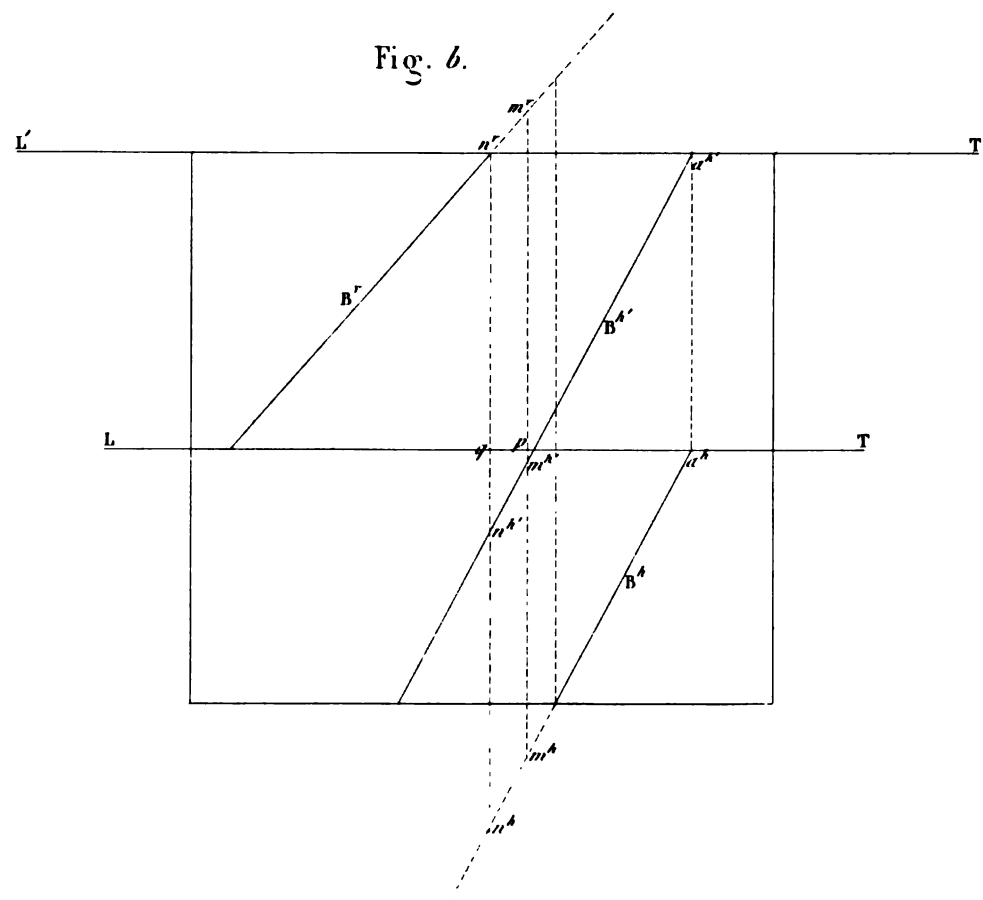
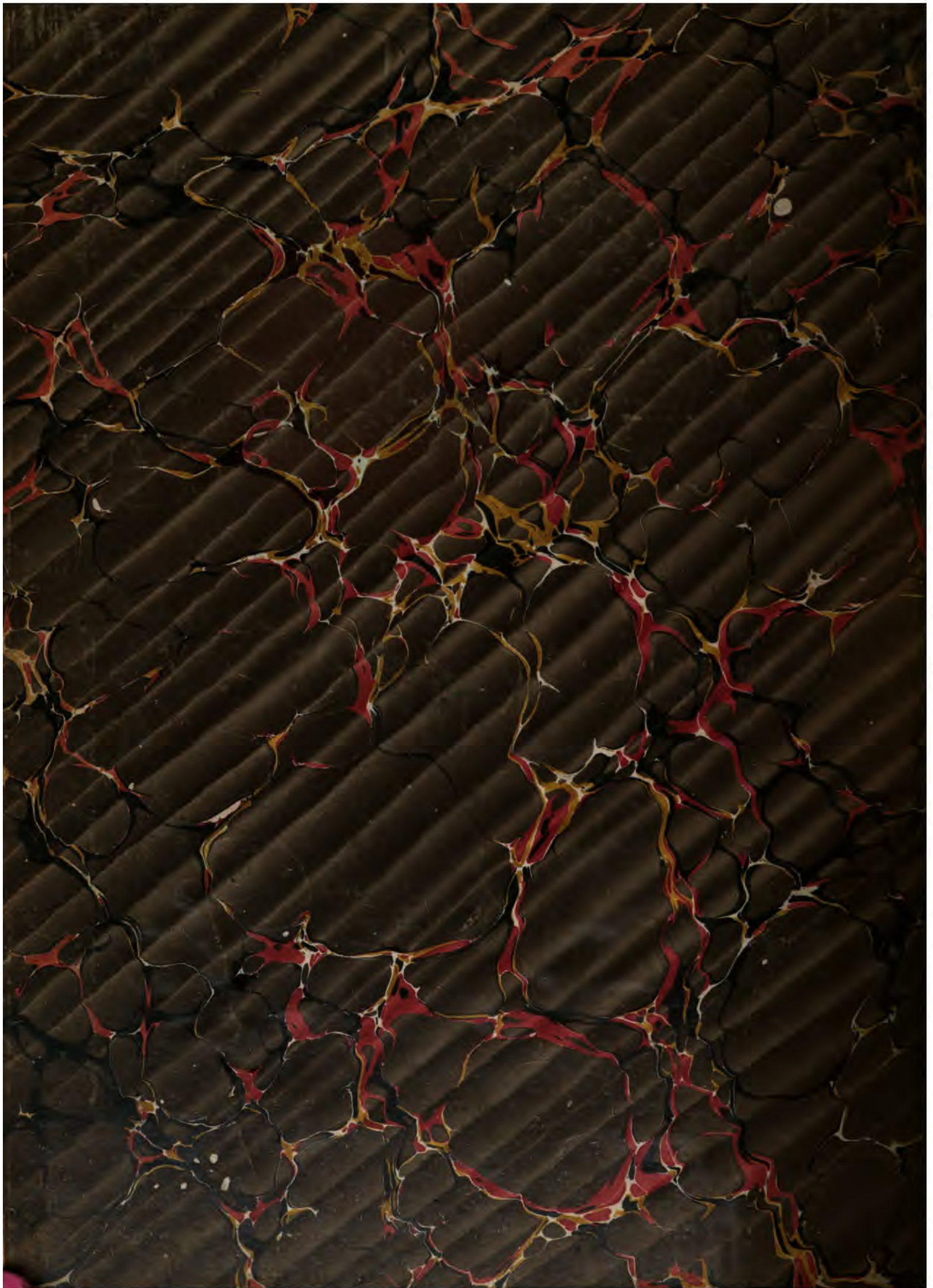


Fig. b.





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